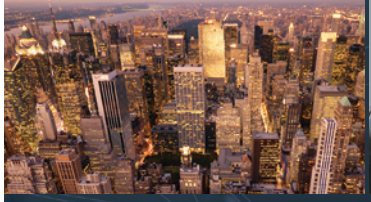
Control Circuit Devices, Signal Towers

Product Range Catalog

Command and Indication

Build it in.

Powering Business Worldwide



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We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

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Powering business worldwide

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With 2015 sales of $20.9 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.

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Powering Business Worldwide

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Moeller™ series

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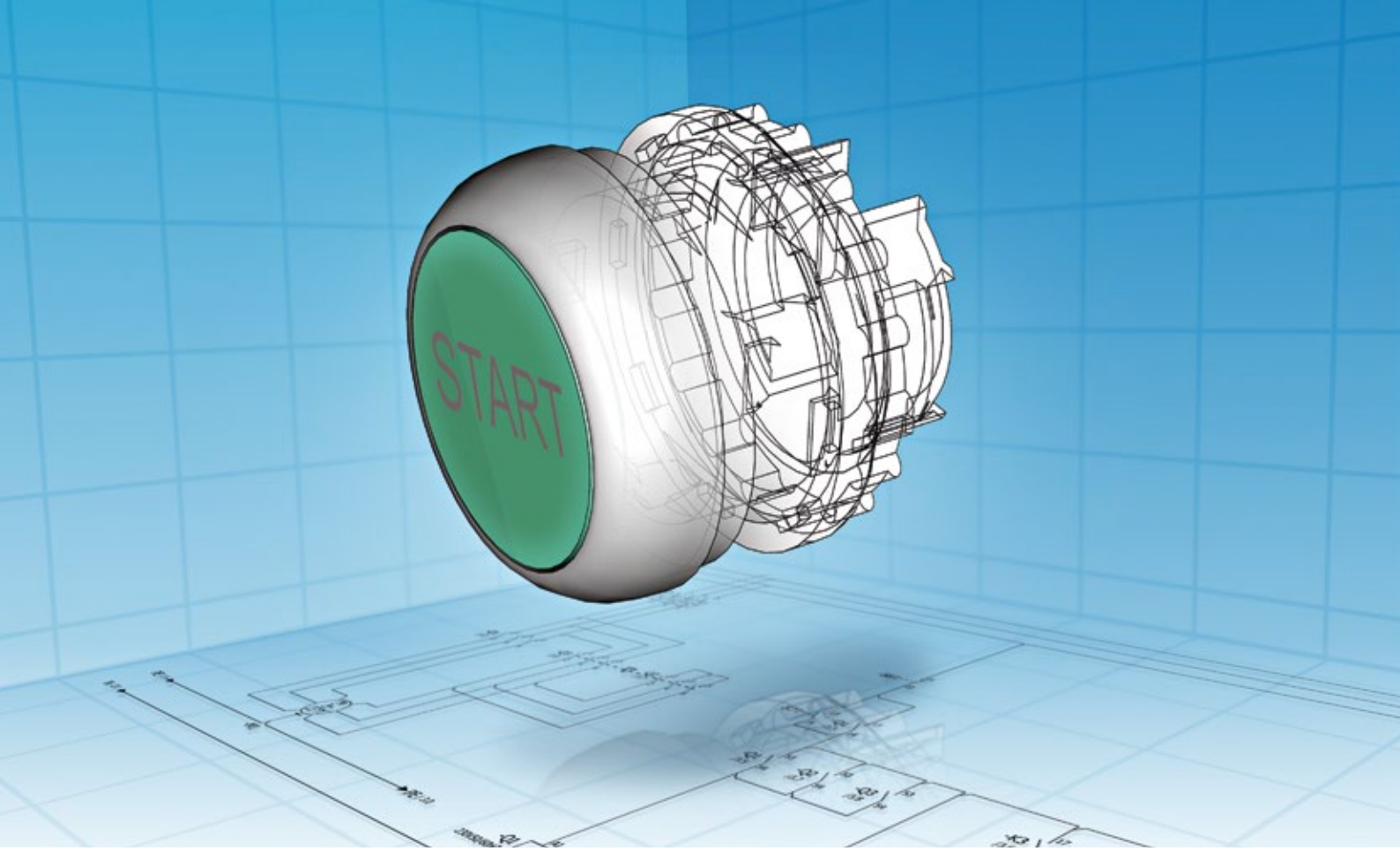


Planning safety and process optimization: CAD data at the click of a mouse!

- 12,900 article data items and macros
- Convenient selection tool
- Version P8

- Models for approx. 15,000 products
- 80 different neutral & native formats

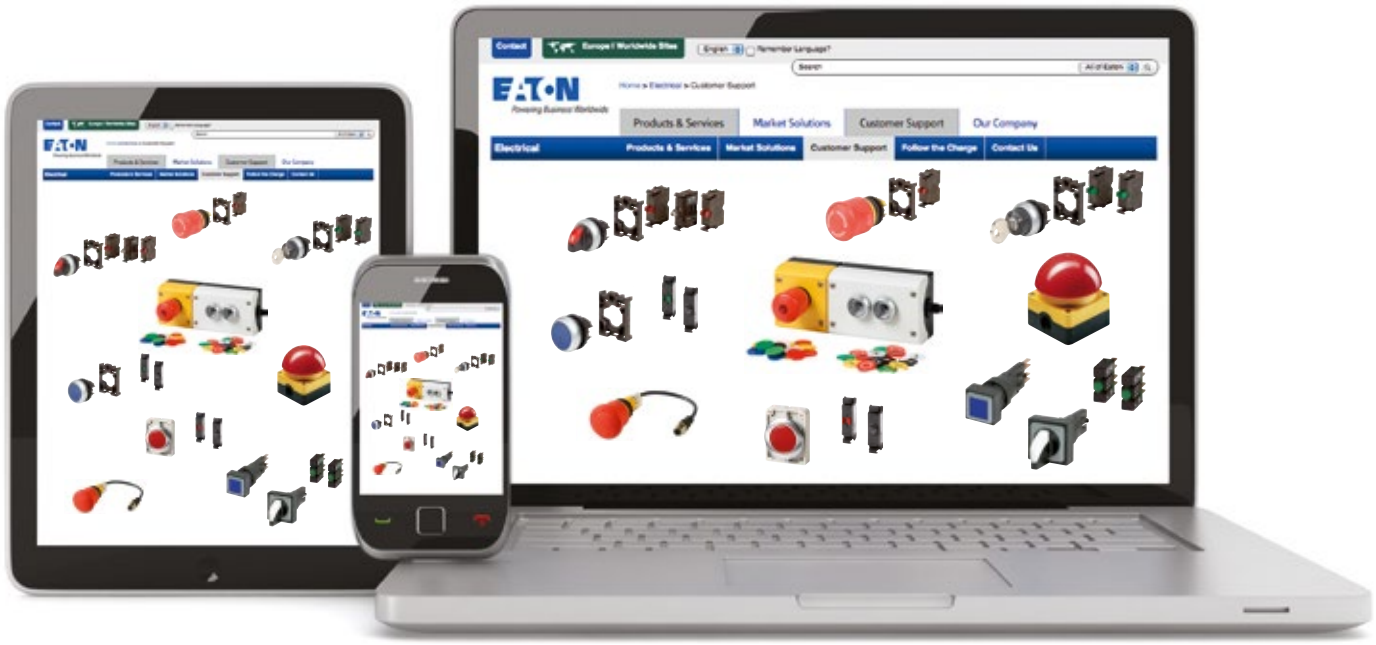
Eaton is providing its customers with CAD data to offer optimum support during planning. Both electrical and mechanical design data can be called up quickly and conveniently from the Internet at any time. This reduces processing times, minimizes errors and thus reduces costs already in the engineering phase of control panels, systems and machinery.

eCAD: Eaton has product data and macros available for EPLAN Electric P8. After downloading the small EPLANSelection program, you will not only be able to select the items you need from a database containing more than 12,900 products, but will also be able to export them and import them into your own EPLAN item database.

mCAD: Eaton makes 2D and 3D data available for more than 15,000 products. Over 80 different neutral and native formats guarantee compatibility with the project engineering systems of the customer. The models can either be integrated directly into the planning software from the Partcommunity Portal on the Internet or via the CADENAS Partsolution software.

www.eaton.eu/cad

The Pushbutton-Configurator – Select Your Products Quickly and Easily!



The Pushbutton-Configurator is available online and is designed to help you select and combine a variety of pilot devices, such as those found in the RMQ-Titan series. The configurator is user-friendly and neatly laid out, provides a quick overview of the various ranges of products, and uses intuitive user guidance to show solutions that match your needs. In addition, once all individual components have been selected, the configurator will show the assembled final product. Moreover, the setup pane shows selected products directly, making it much easier for you to configure the right components for your application.

The integrated Label Editor function can be used to create custom labels for pilot devices, enabling you to customize your applications as necessary. Moreover, the configurator also makes it possible to easily configure complete devices that are put together in a custom-tailored manner. Once you configure your pilot devices, you will be shown a convenient parts list that you can then use to easily order all the components you need. Combined with the various images and integrated links to data sheets, these parts lists ensure that you can easily put together the required documentation for your projects.

To use the Pushbutton-Configurator, visit:
www.eaton.eu/config/rmq

Build it in.

RMQ-Titan Pilot Devices Proven and Versatile

SmartWire-DT
The easy way to connect

Catalog download:
www.eaton.eu/catalog

www.eaton.eu/rmq

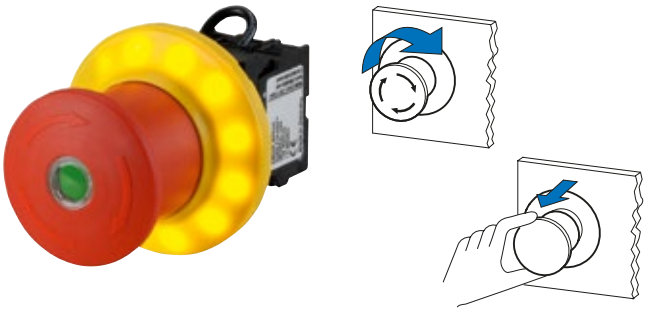
The pilot devices in the RMQ-Titan M22 and M30 series are characterized by enormous versatility, making them the perfect solution for a wide variety of applications and processes. In fact, the range of potential applications for which they can be used is further broadened by their high degree of protection. In addition, their ergonomic operators combine stylish design with optimum functionality, and using their new slim contact elements makes it possible to combine RMQ-Titan devices with minimal mounting depths. Finally, their shape and design makes RMQ-Titan pilot devices comfortable and intuitive to use.

The tried and tested M22 product series is now complemented by M30 elements with a slim design. Contact and LED elements are available in two mounting depths for the flush mounting plates for both series. Moreover, the fact that the pilot devices can be connected to the SmartWire-DT communication system makes them ingeniously simple to wire.

Emergency stop buttons in a wide variety of designs are an important element in ensuring that dangers can be safely averted, and accordingly play a key role in protecting personnel and property. Accordingly, the emergency-stop buttons in the RMQ-Titan series are tamper-proof.

Numerous type approvals and classification society approvals ensure that RMQ-Titan devices can be used worldwide.

In short, this comprehensive range of pilot devices is engineered to ensure that your machines, systems, and processes keep running smoothly.



Safe shutdown with RMQ-Titan

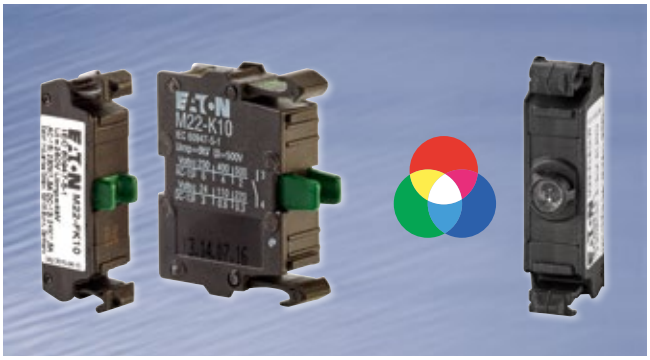
The EMERGENCY-STOP or EMERGENCY-OFF buttons are available with and without a key, turn-release, non-illuminated, illuminated with standard LED or with mechanical switch position display (green/red) in the centre of the actuation element. Self-monitoring contact blocks guarantee comprehensive operational safety: even with incorrect installation or after unduly powerful actuation.

Flush RMQ-Titan buttons

RMQ-Titan units with a flush design are the perfect complement to the industry's move towards stylish front panels for machines. These flush pushbuttons feature a modular design and are the perfect match for the RMQ-Titan series, flush contacts, and LED elements. Moreover, the flush transition between their operator and bezel make these units ideal when it comes to sleek looks and cutting-edge applications.

Easy and flexible assembly

RMQ flat front devices are not only characterized by an attractive and sleek design, but also feature the sophisticated mounting system known as RMQ- AFX. When the knurled nut is tightened, a spring element simultaneously ensures that the assembly will automatically adjust to the thickness of the mounting plate being used. RMQ flat front devices are designed for 30.5 mm mounting holes.



Flush and modular: flat rear elements

These flush contact and LED elements, which have a mounting depth of only 30 mm, are perfect for control panels in which every bit of space counts. They feature a one-of-a-kind modular design when it comes to operators, contacts, LED colors, and accessories, with the flush multi-color LED elements opening a whole new world of possibilities when it comes to intelligent control designs for machines.

Fast, flexible labelling – The Labeleditor

The Label Editor is available as one of the functions in the Pushbutton-Configurator. Once you put together your pilot device combinations, you can use this function to make a customized laser inscription on your button plates using your own company or project-specific label, logo, or image – easily, conveniently, and custom-tailored to your needs!
www.eaton.eu/config/rmq

High-precision settings made easy

The M22-SWD encoder makes it possible to set extremely precise settings on machines by simply turning it and confirming. Moreover, its modular design, combined with a direct SmartWire-DT connection, allows for maximum installation flexibility and ease of diagnostics. The M22-SWD encoder also completely eliminates any potential extra costs that would normally be associated with the use of an encoder.

1

M22

1.0 RMQ-Titan pilot devices

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1.2 Product selection

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M30

1.5 System overview

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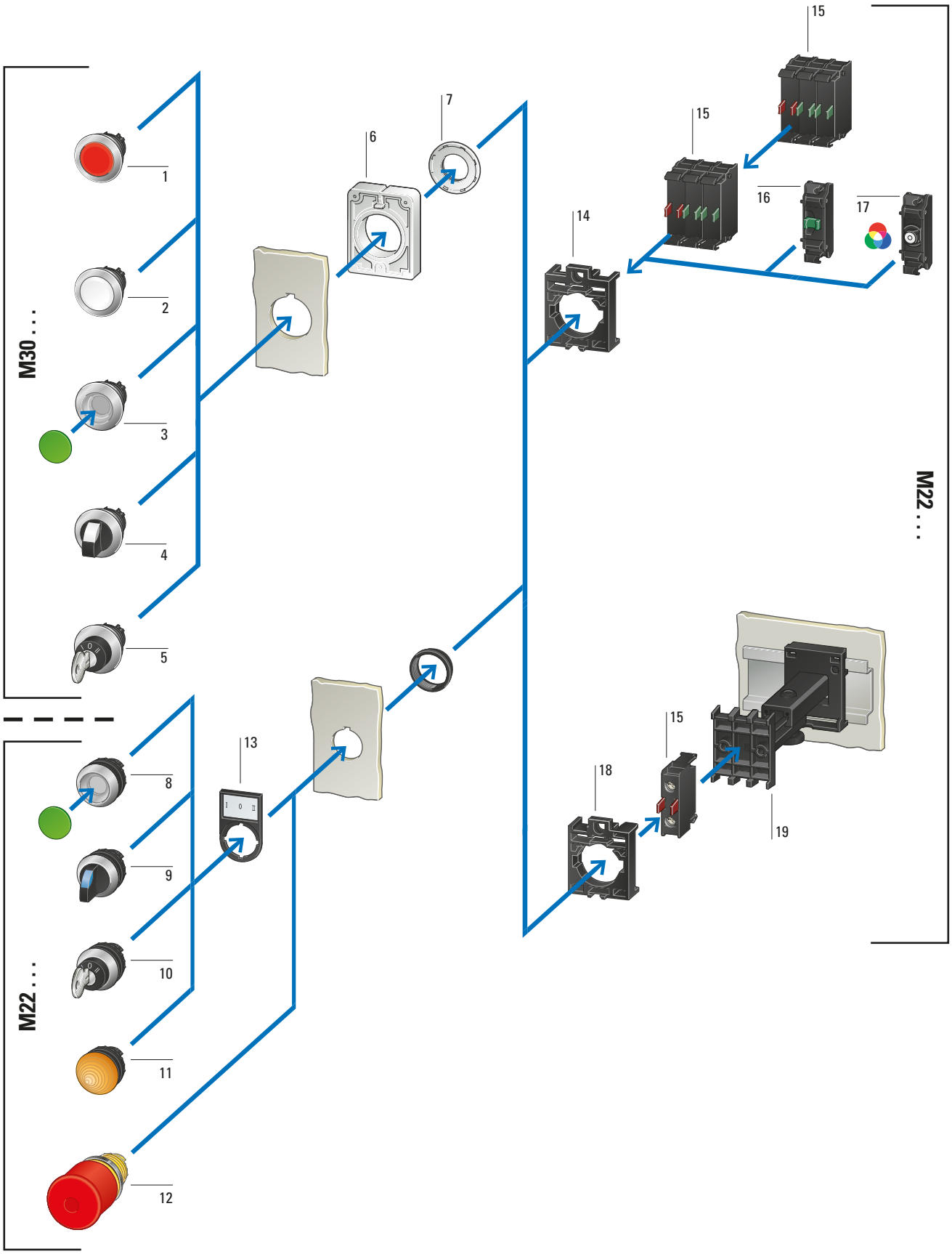
1 System overview



M30 indicator lights 1
Style: flush
Colors: white, green, red, yellow, blue, orange
→ Page 44

M30 pushbuttons 2
Momentary and maintained
Flush
Colors: white, green, red, yellow, blue, black, grey
→ Page 40

M30 illuminated pushbutton actuators 3
Illuminated pushbutton actuators
Colors: white, green, red, yellow, blue, orange
→ Page 45

M30 selector switches 4
2 and 3 positions
With rotary head, thumb-grip
Programmable maintained/ momentary action
Illuminated selector switches with transparent thumb-grip
Colors: white, green, red, yellow, blue
→ Page 41

M30 key-operated buttons 5
For individual lock mechanisms
2 or 3 positions
→ Page 42

RMQ-AFX 6
Anti-rotation tab
Included with the equipment supplied with M30 front elements

Threaded rings 7
→ Page 70

M22 pushbuttons 8
Momentary and maintained
Flush
Colors: white, green, red, yellow, blue, black
Illuminated pushbutton actuators
Colors: white, green, red, yellow, blue, orange
→ Page 25

M22 selector switches 9
2 and 3 positions
With rotary head, thumb-grip
Programmable maintained/ momentary action
Illuminated selector switches with transparent thumb-grip
Colors: white, green, red, yellow, blue
→ Page 28

M22 key-operated buttons 10
For individual lock mechanisms
2 or 3 positions
→ Page 29

M22 indicator lights 11
Style: flush, conical
Colors: white, green, red, yellow, blue, orange
→ Page 33

Controlled stop/emergency stop buttons 12
Tamper-proof as defined in ISO 13850/EN 418
Can be secured with a sealable shroud
Additional labels, with inscription or blank
→ Page 14

Label mounts 13
For insert labels
Color: black
Insert labels: aluminum color, with inscription or blank, can be engraved
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Mounting adapters 14
For flush mounting
For contact and LED elements
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Contact elements 15
N/C and N/O
Universal contacts suitable for use with electronic devices
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
Max. 2 levels, each with 3 contact elements
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Flat Rear contact elements 16
Cage Clamp with push-in terminals
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Flat Rear LED elements 17
Cage Clamp with push-in terminals
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Centering adapter 18
For centering pilot device elements when using a telescopic clip
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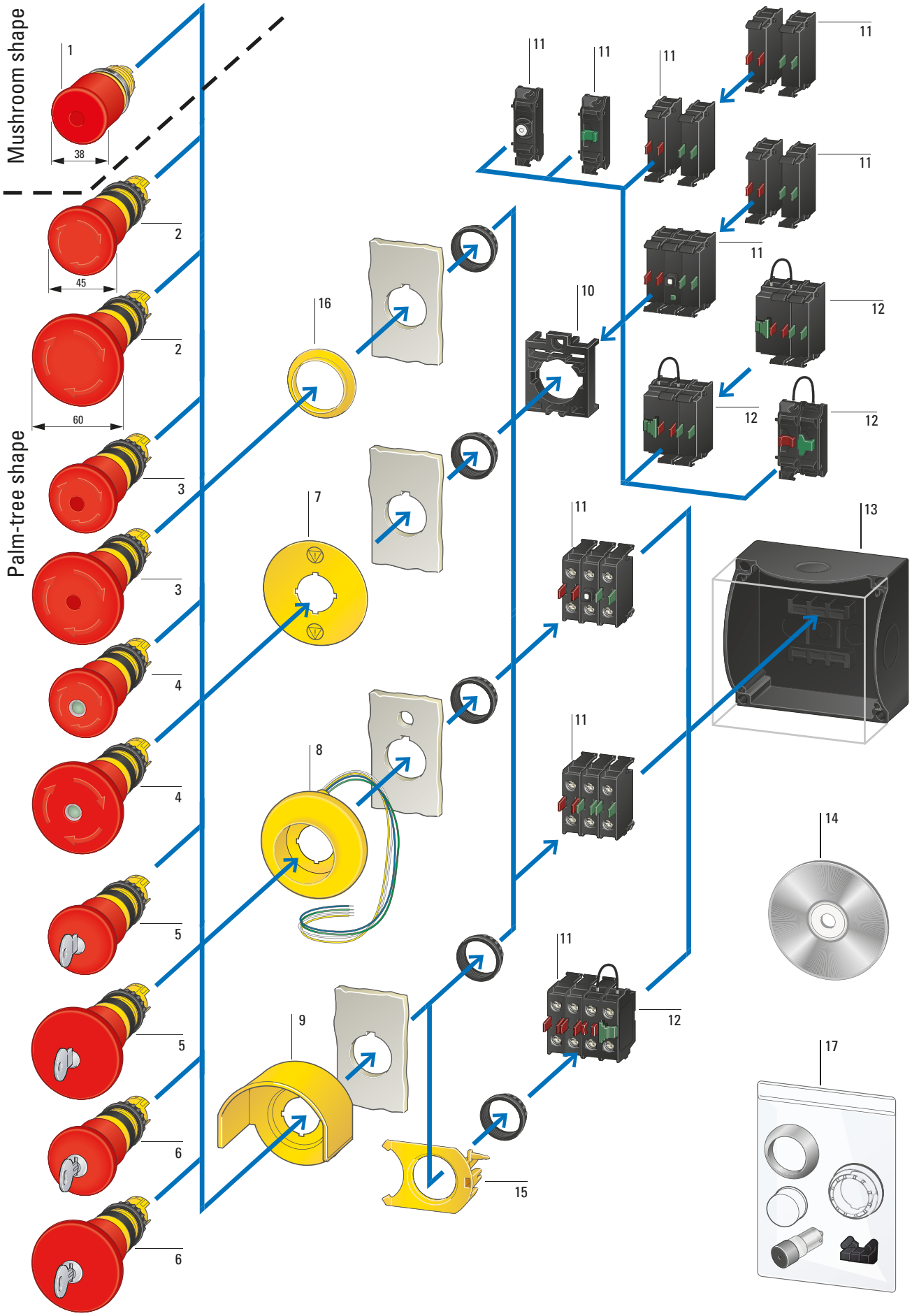
Mushroom shape
Palm-tree shape
1
38
2
45
2
60
3
3
4
4
5
5
6
6
7
8
9
10
11
11
11
11
11
12
12
12
12
13
14
15
16
17

Controlled stop buttons Emergency stop buttons Mushroom-shaped 1
- Non-illuminated
- Can be illuminated with LED
- With MS1 - MS20 lock mechanism
- With lock mechanism for master key system
- Tamper-proof as defined in ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Can be secured with a sealable shroud
- Additional labels, with inscription or blank
- Twist release

→ Page 13

Controlled stop buttons Emergency stop buttons Palm shaped 2
- Non-illuminated
- 45 mm and 60 mm diameter
- Tamper-proof as defined in ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Additional labels, with inscription or blank
- Twist release

→ Page 14

Controlled stop buttons Emergency stop buttons Palm shaped 3
- Can be illuminated with LED
- 45 mm and 60 mm diameter
- Tamper-proof as defined in ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Additional labels, with inscription or blank
- Twist release

→ Page 14

Controlled stop buttons Emergency stop buttons Palm shaped 4
- With mechanical position indicator
- 45 mm and 60 mm diameter
- Tamper-proof as defined in ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Additional labels, with inscription or blank
- Twist release

→ Page 14

Controlled stop buttons Emergency stop buttons Palm shaped 5
- With MS1 - MS20 lock mechanism
- 45 mm and 60 mm diameter
- Tamper-proof as defined in ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Additional labels, with inscription or blank
- Twist release

→ Page 14

Controlled stop buttons Emergency stop buttons Palm shaped 6
- With Ronis 455 lock mechanism
- 45 mm and 60 mm diameter
- Tamper-proof according to ISO 13850/EN 418
- European Machinery Safety Directive 2006/42/EC
- Can be secured with a sealable shroud
- Additional labels, with inscription or blank
- Twist or pull release

→ Page 14

Controlled stop legend plates Emergency stop legend plates 7
- Round, square, and rectangular types
- Single-language, multi-language, custom inscription possible

→ Page 17

Illuminated rings 8
- Versions: 24 V AC/DC, 120 V AC, 230 V AC
- Solid light
- Flashing light with separate driver
- Chaser light with separate driver, 24 V AC/DC
- With three LED rows that can be driven separately

→ Page 16

Guard rings 9
- For preventing unintended actuation
- For 38 mm and 45 mm designs

→ Page 16

Mounting adapters 10
- For flush mounting
- For contact and LED elements when using M22-A...
- For contact elements when using M22-A4

→ Page 48

Contact elements, indicator lights 11
- N/C and N/O
- Universal contacts suitable for use with electronic devices
- Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
- Max. 2 levels, each with 3 contact elements

→ Page 48

Self-monitoring contacts 12
- Front mounting or base mounting
- 1 N/C and 1 N/O in series Versions: 2 N/C 1 N/O; 1 N/C 1 N/O
- For safety standards of up to SIL 3 as defined in EN 62061 or performance level e as defined in ISO 13849-1

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Enclosures 13
- IP67 surface mounting enclosures with up to 6 mounting locations
- IP55 surface mounting enclosures with up to 12 mounting locations
- IP54 flush mounting plates with up to 6 mounting locations
- IP40 shrouds for flush mounting plates

→ Page 67

Convenient labeling 14

A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.
Download:
www.eaton.eu/config/rmq
Keyword: "Pushbutton Configurator
→ Label Editor function"

Signal contact actuators for SMC 15

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Controlled stop/emergency stop legend plates 16
- Requiring little space

→ Page 18

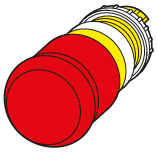
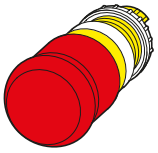
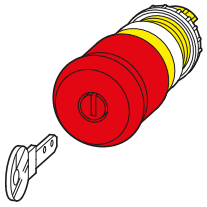
Accessories 17

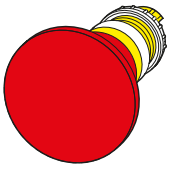
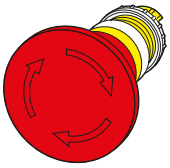
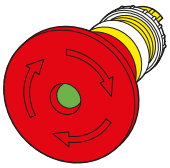
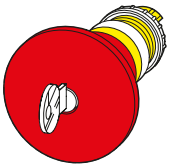
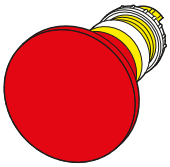
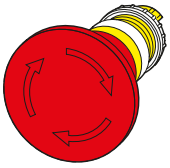
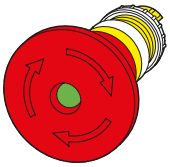
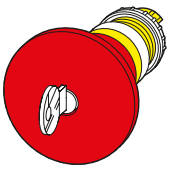
→ Page 69

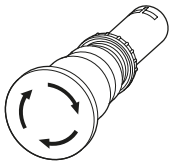
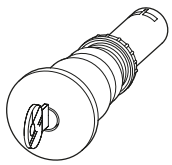
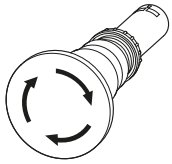
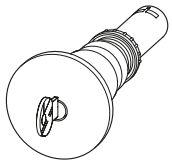
1 Product selection

Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Degree of protection	Part no. Article no.	Std. pack	Notes
Emergency stop buttons						
Tamper-proof as defined in ISO 13850/EN 418 Pull release Max. number of contacts: 4 x M22-(C)K… Red mushroom head, yellow base						
–	1 N/C ⊖		IP66, IP69K	**M22-PV/K01** 216515	5 units	BAUART GEPRÜFT TÜV Rheinland Product Safety TYPE APPROVED; SUVA CNA INSAI
1 N/O	1 N/C ⊖		IP66, IP69K	**M22-PV/K11** 216516	5 units	
Emergency stop key-release mushroom button						
Tamper-proof as defined in ISO 13850/EN 418 With 1 key, MS1 individual lock mechanism, not suitable for master key systems Key release Red mushroom head, yellow base						
–	1 N/C ⊖		IP67, IP69K	**M22-PVS/K01** 216514	5 units	BAUART GEPRÜFT TÜV Rheinland Product Safety TYPE APPROVED

Number of operators Qty.	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Degree of protection	Part no. Article no.	Std. pack
Emergency stop buttons						
Tamper-proof as defined in ISO 13850/EN 418 Pull release						
–	–	2 N/C		IP66, IP69K	**M22-PV/KC02/IY** 216524	1 unit
–	1 N/O	1 N/C ⊖		IP66, IP69K	**M22-PV/KC11/IY** 216525	
Emergency stop key-release mushroom button						
With 1 key MS1 lock mechanism						
1	1 N/O	1 N/C ⊖		IP67, IP69K	**M22-PVS/KC11/IY** 216523	1 unit
Customized complete devices						
To order, use form F0315 → Data sheet in online catalog					**M22-COMBINATION** 2010741	1 unit

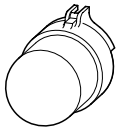
	Illumination		Color, mushroom head symbol	Degree of protection	Part no. Article no.	Std. pack
Controlled stop/emergency stop buttons						
Pull release **38 mm button diameter** 	Without illumination	Pull release		IP66, IP69K	**M22-PV** 216876	5 units
	Without illumination	Pull release		IP66, IP69K	**M22-PV-GVP** 216877	50 units
	Without illumination	Pull release		IP66, IP69K	**M22-PV-ESS** 178983	5 units
	Can be illuminated with LED element	Pull release		IP66, IP69K	**M22-PVL** 216878	
Twist release **38 mm button diameter** 	Without illumination	Twist release		IP67, IP69K	**M22-PVT** 263467	5 units
	Can be illuminated with LED element	Twist release		IP67, IP69K	**M22-PVLT** 263469	
Key release **38 mm button diameter** **with 1 key** 	Without illumination	MS1 individual lock mechanism Not suitable for master key systems		IP67, IP69K	**M22-PVS** 216879	5 units
	Without illumination	MS2 - MS20 individual lock mechanism Not suitable for master key systems *→ 2, …, 20 (i.e.: M22-PVS-MS2, ..., M22-PVS-M20)		IP67, IP69K	**M22-PVS-MS*** 216880	1 unit
	Without illumination	Suitable for master key systems To order, use form MZ047002ZU (formerly FO276) → Data sheet in online catalog Delivery will take approx. 4 to 6 weeks For master key systems, please refer to → Page 30		IP67, IP69K	**M22-PVS-SA(*)-*** 104826	

	Illumination		Mushroom head color	Part no. Article no.	Std. pack
	Controlled stop/emergency stop buttons, IP67, IP69K				
Pull release Palm, 45 mm diameter 	Without illumination			**M22-PV45P** 152862	1 unit
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated		**M22-PV45P-MPI** 152863	
	Can be illuminated with LED element			**M22-PVL45P** 152860	
Twist release Palm, 45 mm diameter 	Without illumination	–		**M22-PVT45P** 121462	1 unit
	Can be illuminated with LED element	–		**M22-PVLT45P** 121460	
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated		**M22-PVT45P-MPI** 121463	
Key release Palm, 45 mm diameter with 1 key 	Without illumination	MS1 individual lock mechanism Not suitable for master key systems		**M22-PVS45P-MS1** 121468	1 unit
	Without illumination	MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, …, 20 (i.e.: M22-PVS45P-MS2, ..., M22-PVS45P-MS20)		**M22-PVS45P-MS*** 121470	
	Without illumination	Ronis 455 individual lock mechanism Not suitable for master key systems		**M22-PVS45P-RS** 121466	
	Controlled stop/emergency stop buttons, IP67, IP69K				
Pull release Palm, 60 mm diameter 	Without illumination			**M22-PV60P** 152864	1 unit
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated		**M22-PV60P-MPI** 152865	
	Can be illuminated with LED element			**M22-PVL60P** 152861	
Twist release Palm, 60 mm diameter 	Without illumination	–		**M22-PVT60P** 121464	
	Can be illuminated with LED element	–		**M22-PVLT60P** 121461	
	Without illumination	With mechanical position indicator Green position indicator → Button not activated Red position indicator → Button activated		**M22-PVT60P-MPI** 121465	
Key release Palm, 60 mm diameter with 1 key 	Without illumination	MS1 individual lock mechanism Not suitable for master key systems		**M22-PVS60P-MS1** 121469	
	Without illumination	MS2 - MS20 individual lock mechanisms Not suitable for master key systems *→ 2, …, 20 (i.e.: M22-PVS60P-MS2, ..., M22-PVS60P-MS20)		**M22-PVS60P-MS*** 121471	
	Without illumination	Ronis 455 individual lock mechanism Not suitable for master key systems		**M22-PVS60P-RS** 121467	

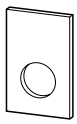
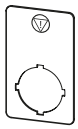
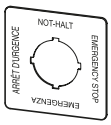
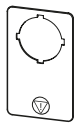
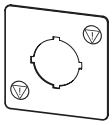
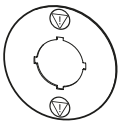
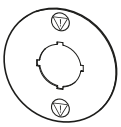
		Mushroom head color	Contact configuration N/O = Normally open contact	Contact configuration N/C = Normally closed contact	Part no. Article no.	Std. pack
Controlled stop/emergency stop buttons, IP67, IP69K						
Twist release Palm, 45 mm diameter 	Without illumination			2 N/C ⊖	**C22-PVT45P-K02** 121611	1 unit
	Without illumination		1 N/O	1 N/C ⊖	**C22-PVT45P-K11** 121610	
Key release, MS1 Palm, 45 mm diameter 	Without illumination			2 N/C ⊖	**C22-PVS45P-MS1-K02** 121619	
	Without illumination		1 N/O	1 N/C ⊖	**C22-PVS45P-MS1-K11** 121618	
Twist release Palm, 60 mm diameter 	Without illumination			2 N/C ⊖	**C22-PVT60P-K02** 121621	
	Without illumination		1 N/O	1 N/C ⊖	**C22-PVT60P-K11** 121620	
Key release, MS1 Palm, 60 mm diameter 	Without illumination			2 N/C ⊖	**C22-PVS60P-MS1-K02** 121613	
	Without illumination		1 N/O	1 N/C ⊖	**C22-PVS60P-MS1-K11** 121612	

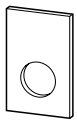
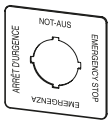
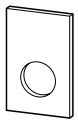
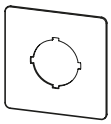
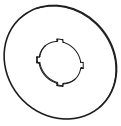
Notes ⊖ Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

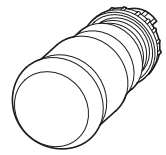
1

	RAL number	Degree of protection	**Part no.** Article no.	Std. pack
Guard rings				
Makes accidental actuation more difficult				
	RAL 1004	IP65	**M22-XGPV** 231273	1 unit
	RAL 1004	IP65	**M22-XGPV3** 177047	
Sealable shroud				
For devices with a 38 mm button diameter Transparent with detachment position; can be reused after controlled stop/emergency stop/stop Adjacent holes must be sealed with M22(S)-B blanking plugs in a 30 x 50 grid				
	–	IP65	**M22-PL-PV** 216397	2 units
LED-luminous rings				
Yellow with yellow LEDs → Engineering, Page 75 (circuit diagrams)				
60 mm diameter 24 V AC/DC Three groups, with 4 LEDs each (connected in series), that can be driven separately (e.g., for a chaser light sequence)			**M22-XPV60-Y-24** 121477	1 unit
60 mm diameter 120 V AC One group of 8 LEDs (connected in series)			**M22-XPV60-Y-120** 121476	1 unit
60 mm diameter 230 V AC One group of 8 LEDs (connected in series)			**M22-XPV60-Y-230** 138280	1 unit
Customized complete devices				
To order, use form F0315 → Data sheet in online catalog				
			M22-COMBINATION 2010741	1 unit

Note: Contact elements → Page 48

	Inscription	Language	Color	Part no. Article no.	Std. pack
	Controller stop legend plates, IP66				
	Black lettering				
33 x 50 mm 	NOT-HALT	de		**M22-XZK1-D99** 121089	10 units
	Arresto di emergenza	it		**M22-XZK1-I99** 121370	
	HÄTÄPYSÄYTYS	fi		**M22-XZK1-SF99** 121371	
33 x 50 mm 	Symbol (5638) for controlled stop	–		**M22-XZK-ESS** 180470	
50 x 50 mm 	Four languages	de, en, fr, it		**M22-XYK11** 121373	
33 x 50 mm 	Symbol (5638) for controlled stop	–		**M22-XZK-ESS2** 180474	
90 mm diameter	Four languages	de, en, fr, it		**M22-XAK11** 121085	
	Four languages	de, en, es, pt		**M22-XAK12** 121086	
	Four languages	de, en, nl, fr		**M22-XAK13** 121087	
	Four languages	en, sv, fi, da		**M22-XAK14** 121088	
50 x 50 mm 	Symbol (5638) for NOT-HALT	–		**M22-XYK-ESS** 180471	
60 mm diameter	Four languages	de, en, fr, it		**M22-XBK11** 121372	
90 mm diameter 	Symbol (5638) for controlled stop	–		**M22-XAK-ESS** 180469	
60 mm diameter 	Symbol (5638) for controlled stop	–		**M22-XBK-ESS** 180472	

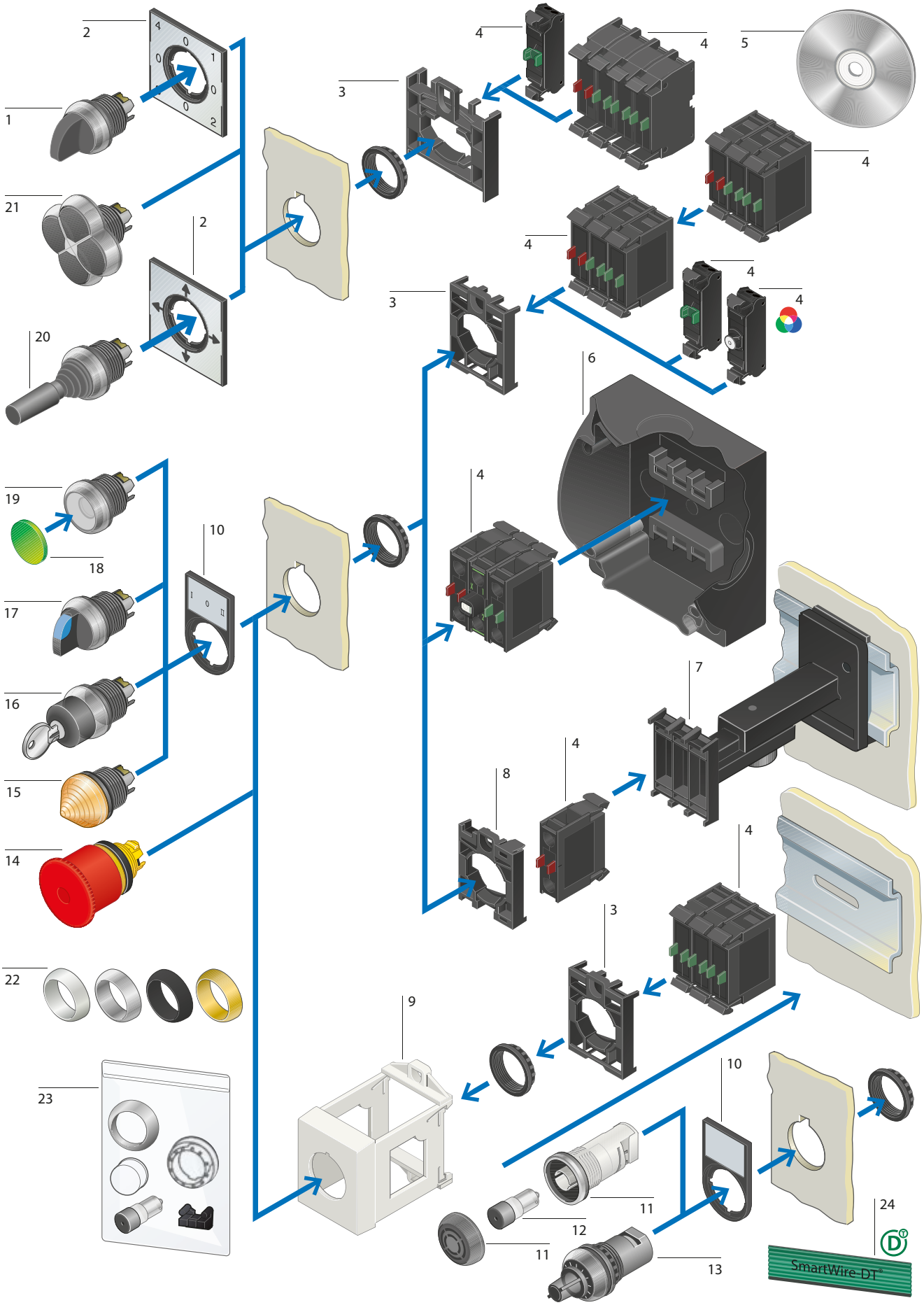
	Inscription	Language	Color	Part no. Article no.	Std. pack
	Emergency stop legend plates, IP66				
	Black lettering				
33 x 50 mm 	NOT-AUS	de		**M22-XZK-D99** 216471	10 units
	Emergency Stop	en		**M22-XZK-GB99** 216472	
	Arrêt d'urgence	fr		**M22-XZK-F99** 216473	
	EMERGENZA	it		**M22-XZK-I99** 216474	
	NOODSTOP	nl		**M22-XZK-NL99** 216475	
	NÖDSTOPP	sv		**M22-XZK-S99** 216476	
	HÄTÄ-SEIS	fi		**M22-XZK-SF99** 216477	
	NØDSTOP	da		**M22-XZK-DK99** 216478	
50 x 50 mm 	–	de, en, fr, it		**M22-XYK1** 216484	
90 mm diameter	–	de, en, fr, it		**M22-XAK1** 216465	
	–	de, en, es, pt		**M22-XAK2** 216466	
	–	de, en, nl, fr		**M22-XAK3** 216467	
	–	en, sv, fi, da		**M22-XAK4** 216468	
60 mm diameter	Four languages	de, en, fr, it		**M22-XBK1** 216483	
	Controlled stop/emergency stop legend plates				
33 x 50 mm 	With customized Label Editor inscription → Engineering, Page 74	–		**M22-XZK-*** 216479	10 pieces
	Blank	–		**M22-XZK** 216470	
50 x 50 mm 	With customized Label Editor inscription → Engineering, Page 74	–		**M22-XYK-*** 231181	
90 mm diameter 	With customized Label Editor inscription → Engineering, Page 74	–		**M22-XAK-*** 216469	
	Blank	–		**M22-XAK** 216464	
60 mm diameter	With customized Label Editor inscription → Engineering, Page 74	–		**M22-XBK-*** 231762	
	Blank	–		**M22-XBK** 269580	
40 mm diameter	Blank, for small installation spaces	–		**M22-XAK40** 177703	



	Mushroom head color	Degree of protection	**Part no.** Article no.	Std. pack
Stop pushbuttons				
Non-illuminated, pull release		IP66, IP69K	**M22S-PV** 225528	5 units
Non-illuminated, twist release		IP67, IP69K	**M22S-PVT** 271499	
Non-illuminated, twist release		IP67, IP69K	**M22Y-PVT** 147403	
Illuminated, pull release		IP66, IP69K	**M22S-PVL** 230962	
Illuminated, twist release		IP67, IP69K	**M22S-PVLT** 271540	
Guard ring for stop pushbutton				
–		IP65	**M22G-XGPV** 271610	1 unit

1

System overview



M22 4-way selector switches 1
4 positions
With rotary head or thumb-grip
0-1-0-2-0-3-0-4 maintained action
→ Page 28

Labels with label mounts 2
Color: aluminum
Labels: with inscription, with custom inscription, blank
→ Page 32

Mounting adapters 3
For flush mounting
For contact and LED elements when using M22-A...
For contact elements when using M22-A4
→ Page 48

(Double) contact elements 4
N/C and N/O
Universal contacts suitable for use with electronic devices
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
Max. 2 levels, each with 3 contact elements
→ Page 49

LED elements 4
Voltage range:
12 - 30 V AC/DC
85 - 264 V AC
→ Page 51

Convenient labeling 5
A laser inscription with any text and/or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.
Download:
www.eaton.eu/config/rmq
Keyword: "Pushbutton Configurator
→ Label Editor function"

Enclosures 6
IP67 surface mounting enclosures with up to 6 mounting locations
IP55 surface mounting enclosures with up to 12 mounting locations
IP54 flush mounting plates with up to 6 mounting locations
IP40 and IP55 shrouds for flush mounting plates
→ Page 67

Telescopic clip 7
4 positions
For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets
→ Page 69

Centering adapter 8
For centering pilot device elements when using a telescopic clip
→ Page 69

IVS top-hat rail adapter 9
For direct mounting on IEC/EN 60175 DIN-rail
→ Page 70

Label mounts 10
For insert labels
Color: black
Insert labels: aluminum color, with inscription or blank, can be engraved
→ Page 57

Acoustic device 11
IP40 degree of protection without buzzer
→ Page 34

Buzzer for acoustic device 12
Continuous tone, pulse tone
18 - 30 V DC
→ Page 34

Potentiometers 13
Resistances of 1 kΩ - 1 MΩ
3 individual connections
With screw terminals
→ Page 34

Controlled stop/emergency stop buttons 14
Tamper-proof as defined in ISO 13850/EN 418
Can be secured with a sealable shroud
Additional labels, with inscription or blank
→ Page 14

Indicator lights 15
Style: flush, conical
Colors: white, green, red, yellow, blue
→ Page 33

Key-operated buttons 16
2 and 3 positions
Programmable momentary/maintained action and key withdraw
Suitable for master key systems
→ Page 29

Selector switches 17
2 and 3 positions
With rotary head, thumb-grip
Programmable maintained/momentary action
Illuminated selector switches with transparent thumb-grip
Colors: white, green, red, yellow, blue
→ Page 28

Button plates/button lenses 18
Laser inscription for pushbuttons and mushroom pushbuttons
Button lenses for illuminated pushbutton actuators and indicator lights, flush
With standard texts and symbols or with customized inscriptions
→ Page 60

Pushbuttons 19
Momentary and maintained
Flush and extended
With and without guard ring
Mushroom pushbuttons, double actuator pushbuttons
Colors: white, green, red, yellow, blue, black
Illuminated pushbutton actuators
Colors: white, green, red, yellow, blue
→ Page 25

Joysticks 20
4 positions
→ Page 31

4-way pushbuttons 21
4 positions
Pushbuttons, momentary
→ Page 32

Bezels 22
- Silver
- Black
- 24 carat gold can only be ordered with M22-COMBINATION

→ Page 69

Accessories 23
→ Page 69

SmartWire-DT 24

Product characteristics
- Clip-fit assembly modular system
- Silver, black, or gold bezel
- Mounting hole diameter: 22.3 mm
- Minimum grid dimension: 30 x 40 mm
- Min. degree of protection: IP66
- Up to 6 contacts per mounting location
- For switching differing potentials
- Approved throughout the world

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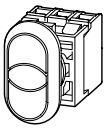
Product selection

Pushbuttons

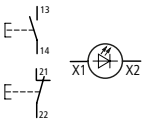
Flush

Button plate	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1 N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Degree of protection	Silver bezel **Part no.** Article no.	Std. pack
	–	1 N/C ⊖		IP67, IP69K	**M22-D-R-X0/K01** 216510	5 units
	1 N/O	–		IP67, IP69K	**M22-D-G-X1/K10** 216512	5 units



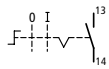
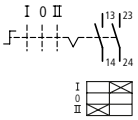
Double actuator pushbutton with LED element, white lens

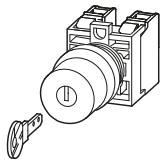
85 - 264 V AC

	1 N/O	1 N/C ⊖		IP66	**M22-DDL-GR-X1/X0/K11/230-W** 216509	5 units

Selector switches

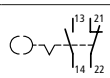
Black thumb-grip
Maintained/momentary action, can be changed with M22-XC-Y configuration adapters → Page 74
Switch positions 0, I, II correspond to the operator's position when viewed from the front.
Gold-plated bezel → Page 69

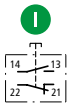
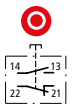
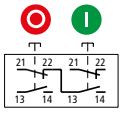
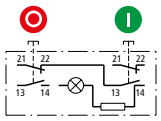
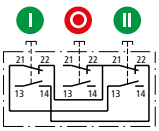
2 positions Maintained	–	1 N/O	–		IP66	**M22-WRK/K10** 216518	5 units
3 positions Maintained	–	2 N/O	–		IP66	**M22-WRK3/K20** 216520	5 units



Key-operated button

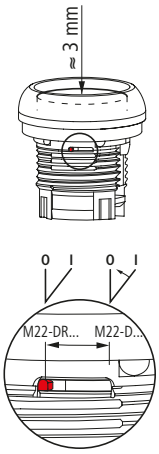
Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74
2 positions maintained
MS1 lock mechanism, with 1 key

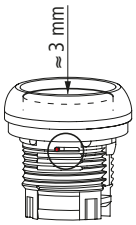
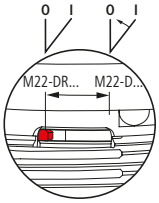
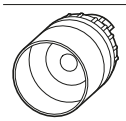
–	–	1 N/O	1 N/C ⊖		IP66	**M22-WRS/K11** 216517	5 units

Number of operators	Contact configuration: ⇔ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1		Contact sequence	Color of enclosure top	Degree of protection	Silver bezel **Part no.** Article no.	Std. pack
Qty.	N/O = Normally open contact	N/C = Normally closed contact		RAL number			
Pushbuttons							
Flush							
1	1 N/O	1 N/C ⇔		RAL 7035	IP67, IP69K	**M22-D-G-X1/KC11/I** 216522	1 unit
1	1 N/O	1 N/C ⇔		RAL 7035	IP67, IP69K	**M22-D-R-X0/KC11/I** 216521	
Key-operated button							
Maintained/momentary action and key withdraw can be changed with M22-XC-... configuration adapters → Page 74 With 1 key 2 positions, maintained MS1 lock mechanism							
1	1 N/O	1 N/C ⇔		RAL 7035	IP66	**M22-WRS/KC11/I** 216526	1 unit
Assembled control station							
Without indicator lights							
2	2 N/O	2 N/C ⇔		RAL 7035	IP67, IP69K	**M22-I2-M1** 216529	1 unit
With white indicator light, LED element 85 - 264 V AC							
2	2 N/O	2 N/C ⇔		RAL 7035	IP67, IP69K	**M22-I3-M2** 216533	1 unit
Assembled control station							
3	3 N/O	3 N/C ⇔		RAL 7035	IP67, IP69K	**M22-I3-M1** 216532	1 unit
Customized complete devices							
To order, use form FO315 → Data sheet in online catalog						**M22-COMBINATION** 2010741	1 unit

1

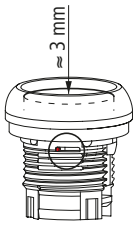
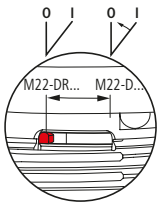
Style	Button plate	Silver bezel **Part no.** Article no.	Black bezel **Part no.** Article no.	Std. pack
	Double actuator pushbuttons with indicator light, IP66 White lens Momentary Gold-plated bezel → Page 69			
Extended pushbuttons and indicator light		**M22-DDL-GR** 216698	**M22S-DDL-GR** 216699	5 units
		M22-DDL-GR-X1/X0 216700	**M22S-DDL-GR-X1/X0** 216701	
		M22-DDL-GR-GB1/GB0 216702	**M22S-DDL-GR-GB1/GB0** 216703	
		M22-DDL-WS 216704	**M22S-DDL-WS** 216705	
		M22-DDL-WS-X1/X0 216706	**M22S-DDL-WS-X1/X0** 216707	
		M22-DDL-WS-GB1/GB0 216708	**M22S-DDL-WS-GB1/GB0** 216709	
		M22-DDL-S-X7/X7 216710	**M22S-DDL-S-X7/X7** 216711	
		M22-DDL-S-X226/X26 105227	–	
		M22-DDL-S-X4/X5 218145	**M22S-DDL-S-X4/X5** 218146	
	With customized Label Editor inscription → Notes	**M22-DDL-*-*-*** 226770	**M22S-DDL-*-*-*** 230350	
Flush pushbuttons and indicator light		**M22-DDLF-GR-X1/X0** 284814	**M22S-DDLF-GR-X1/X0** 284815	5 units
		M22-DDLF-WS-X1/X0 284816	**M22S-DDLF-WS-X1/X0** 284817	
	With customized Label Editor inscription → Notes	**M22-DDLF-*-*-*** 284818	**M22S-DDLF-*-*-*** 284819	
Pushbutton I and indicator light flush, pushbutton 0 extended		**M22-DDLM-GR-X1/X0** 284830	**M22S-DDLM-GR-X1/X0** 284831	5 units
		M22-DDLM-WS-X1/X0 284832	**M22S-DDLM-WS-X1/X0** 284833	
	With customized Label Editor inscription → Notes	**M22-DDLM-*-*-*** 107062		
	Notes	1st wildcard (*)	= Button plate color:	B = Blue, G = Green, R = Red, S = Black B/S = Blue top/black base G/R = Green top/red base G/S = Green top/black base W/S = White top/black base
		2nd and 3rd wildcards (*)	= Filename assigned by Label Editor (enter twice) Additional color combinations available upon request → Engineering, Page 74	

	Button plate	Silver bezel **Part no.** Article no.	Std. pack	Black bezel **Part no.** Article no.	Std. pack	Notes
	IP67, IP69K pushbuttons					
	Gold-plated bezel → Page 69					
Flush, momentary	●	**M22-D-S** 216590	10 units	**M22S-D-S** 216591	10 units	–
	○	**M22-D-W** 216592		**M22S-D-W** 216593		
	●	**M22-D-R** 216594		**M22S-D-R** 216595		
	●	**M22-D-G** 216596		**M22S-D-G** 216597		
	●	**M22-D-Y** 216598		**M22S-D-Y** 216599		
	●	**M22-D-B** 216600		**M22S-D-B** 216601		
	●	**M22-D-GR** 132671		**M22S-D-GR** 132672		
	–	**M22-D-X** 216602		**M22S-D-X** 216604		
	–	**M22-D-X-GVP** 216603	50 units			
	◎	**M22-D-R-X0** 216605	10 units	**M22S-D-R-X0** 216606	10 units	
	◎	**M22-D-G-X1** 216607		**M22S-D-G-X1** 216608		
	◎	**M22-D-S-X0** 216609		**M22S-D-S-X0** 216610		
	◎	**M22-D-W-X1** 216611		**M22S-D-W-X1** 216612		
Flush, maintained	●	**M22-DR-S** 216613	5 units	**M22S-DR-S** 216614	5 units	Programmable maintained/ momentary pushbutton action 
	○	**M22-DR-W** 216615		**M22S-DR-W** 216616		
	●	**M22-DR-R** 216617		**M22S-DR-R** 216618		
	●	**M22-DR-G** 216619		**M22S-DR-G** 216620		
	●	**M22-DR-Y** 216621		**M22S-DR-Y** 216622		
	●	**M22-DR-B** 216623		**M22S-DR-B** 216624		
	–	**M22-DR-X** 216625		**M22S-DR-X** 216627		
	–	**M22-DR-X-GVP** 216626	50 units			
	◎	**M22-DR-R-X0** 216628	5 units	**M22S-DR-R-X0** 216629	5 units	
	◎	**M22-DR-G-X1** 216630		**M22S-DR-G-X1** 216631		
	◎	**M22-DR-S-X0** 216632		**M22S-DR-S-X0** 216633		
	◎	**M22-DR-W-X1** 216634		**M22S-DR-W-X1** 216635		

	Button plate	Silver bezel **Part no.** Article no.	Std. pack	Black bezel **Part no.** Article no.	Std. pack	Notes
		IP67, IP69K pushbuttons				
		Gold-plated bezel → Page 69				
Extended, momentary	●	**M22-DH-S** 216636	5 units	**M22S-DH-S** 216637	5 units	–
	○	**M22-DH-W** 216638		**M22S-DH-W** 216639		
	●	**M22-DH-G** 216643		**M22S-DH-G** 216645		
	●	**M22-DH-R** 216641		**M22S-DH-R** 216642		
	●	**M22-DH-Y** 216646		**M22S-DH-Y** 216647		
	●	**M22-DH-B** 216649		**M22S-DH-B** 216650		
	◎	**M22-DH-R-X0** 216655		**M22S-DH-R-X0** 216656		
	I	**M22-DH-G-X1** 216657		**M22S-DH-G-X1** 216658		
	◎	**M22-DH-S-X0** 216659		**M22S-DH-S-X0** 216660		
	I	**M22-DH-W-X1** 216661		**M22S-DH-W-X1** 216662		
Extended, maintained	●	**M22-DRH-S** 216663	5 units	**M22S-DRH-S** 216664	5 units	Programmable maintained/ momentary pushbutton action  
	○	**M22-DRH-W** 216665		**M22S-DRH-W** 216666		
	●	**M22-DRH-R** 216667		**M22S-DRH-R** 216668		
	●	**M22-DRH-G** 216669		**M22S-DRH-G** 216670		
	●	**M22-DRH-Y** 216671		**M22S-DRH-Y** 216672		
	●	**M22-DRH-B** 216673		**M22S-DRH-B** 216674		
	◎	**M22-DRH-R-X0** 216675		**M22S-DRH-R-X0** 216676		
	I	**M22-DRH-G-X1** 216677		**M22S-DRH-G-X1** 216678		
	◎	**M22-DRH-S-X0** 216679		**M22S-DRH-S-X0** 216680		
	I	**M22-DRH-W-X1** 216681		**M22S-DRH-W-X1** 216682		
		**Pushbuttons with guard ring, momentary, IP66, IP69K**				
		Gold-plated bezel → Page 69				
	–	**M22-DG-X** 220921	5 units			–

Mushroom pushbuttons, IP67, IP69K

Gold-plated bezel → Page 69

	Button plate	Button color	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack	Notes
Momentary	●	●	**M22-DP-S** 216712	5 units	**M22S-DP-S** 216713	5 units	–
	●	●	**M22-DP-R** 216714		**M22S-DP-R** 216715		
	●	●	**M22-DP-G** 216716		**M22S-DP-G** 216717		
	●	●	**M22-DP-Y** 216718		**M22S-DP-Y** 216719		
	◎	●	**M22-DP-R-X0** 216720		**M22S-DP-R-X0** 216721		
	I	●	**M22-DP-G-X1** 216722		**M22S-DP-G-X1** 216723		
	◎	●	**M22-DP-S-X0** 216724		**M22S-DP-S-X0** 216725		
	I	●	**M22-DP-W-X1** 216726		**M22S-DP-W-X1** 216727		
	–	●	**M22-DP-S-X** 216728		**M22S-DP-S-X** 216730		
	–	●	**M22-DP-R-X** 216731		**M22S-DP-R-X** 216733		
	–	●	**M22-DP-G-X** 216734		**M22S-DP-G-X** 216736		
	–	●	**M22-DP-Y-X** 216737		**M22S-DP-Y-X** 216739		
Maintained	●	●	**M22-DRP-S** 216743	5 units	**M22S-DRP-S** 216744	5 units	Programmable maintained/ momentary pushbutton action  
	●	●	**M22-DRP-R** 216745		**M22S-DRP-R** 216746		
	●	●	**M22-DRP-G** 216747		**M22S-DRP-G** 216748		
	●	●	**M22-DRP-Y** 216749		**M22S-DRP-Y** 216750		
	◎	●	**M22-DRP-R-X0** 216751		**M22S-DRP-R-X0** 216752		
	I	●	**M22-DRP-G-X1** 216753		**M22S-DRP-G-X1** 216754		
	◎	●	**M22-DRP-S-X0** 216755		**M22S-DRP-S-X0** 216756		
	I	●	**M22-DRP-W-X1** 216757		**M22S-DRP-W-X1** 216758		
	–	●	**M22-DRP-S-X** 216759		**M22S-DRP-S-X** 216761		
	–	●	**M22-DRP-R-X** 216762		**M22S-DRP-R-X** 216764		
	–	●	**M22-DRP-G-X** 216765		**M22S-DRP-G-X** 216767		
	–	●	**M22-DRP-Y-X** 216768		**M22S-DRP-Y-X** 216770		

	Action: ▷ = Momentary (MO) ⌊ = Maintained (MA)	Button plate	Inscription	Function	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
	Selector switches, IP66							
	Gold-plated bezel → Page 69 Maintained/momentary action can be changed with configuration kit → Page 30							
	2 positions							
With rotary head	▷ 40°		–	–	**M22-W** 216853	5 units	**M22S-W** 216854	5 units
	⌊ 60°		–	–	**M22-WR** 216855		**M22S-WR** 216856	
	⌊ 60°		–	–	**M22-WR-X92** 216857		**M22S-WR-X92** 216858	
	⌊ 60°		AUTO MANUAL	–	**M22-WR-X91** 216859		**M22S-WR-X91** 216860	
	⌊ 60°		* = With customized Label Editor inscription → Page 74	–	**M22-WR-*** 226836		**M22S-WR-*** 226837	
With thumb-grip	▷ 40°	–	–	–	**M22-WK** 216865	5 units	**M22S-WK** 216866	5 units
	⌊ 60°	–	–	–	**M22-WRK** 216867	10 units	**M22S-WRK** 216869	10 units
	⌊ 60°	–	–	–	**M22-WRK-GVP** 216868	50 units		50 units
With thumb-grip, V configuration	∨ 60°	–	–	–	**M22-WKV** 216874	5 units	**M22S-WKV** 216875	5 units
	3 positions							
	With plunger bridge → Page 74							
With rotary head	40° ⇓ 40°		–	–	**M22-W3** 216861	5 units	**M22S-W3** 216862	5 units
	60° ⇓ 60°		–	–	**M22-WR3** 216863		**M22S-WR3** 216864	
	60° ⇓ 60°		AUTO 0 MAN.	–	**M22-WR3-X94** 226838		**M22S-WR3-X94** 226839	
	60° ⇓ 60°		* = With customized Label Editor inscription → Page 74	–	**M22-WR3-*** 226840		**M22S-WR3-*** 226841	
With thumb-grip	40° ⇓ 40°	–	–	–	**M22-WK3** 216870	5 units	**M22S-WK3** 216871	5 units
	60° ⇓ 60°	–	–	–	**M22-WRK3** 216872		**M22S-WRK3** 216873	
		–	–	–	**M22-WRK3-*[1)]** 217436		**M22S-WRK3-*[1)]** 217437	
	4 positions							
	Not compatible with configuration adapters Use mounting adapter M22-A4 → Page 48, Legend plates → Page 32							
With rotary head	45°		–		**M22-WR4** 279419	5 units	**M22S-WR4** 279430	5 units
With thumb-grip	45°		–		**M22-WRK4** 279431	5 units	**M22S-WRK4** 279432	5 units

Notes

[1)] * can be replaced with a 1 or 2:
* = 1: for 60° ⇓ 40°
* = 2: for 40° ⇓ 60°

Action:	Key withdrawable at position			Silver bezel		Black bezel	
= Momentary (MO) = Maintained (MA)				**Part no.** Article no.	Std. pack	**Part no.** Article no.	Std. pack

Key-operated buttons for individual lock mechanisms, IP66

Gold-plated bezel → Page 69
Not suitable for master key systems
With 1 key
Maintained/momentary action and key withdraw can be changed with configuration adapters → Page 30

2 positions

MS1 lock mechanism	40°	–	0	–	**M22-WS** 216881	1 unit	**M22S-WS** 216882	1 unit
	60°	–	0	I	**M22-WRS** 216887	5 units	**M22S-WRS** 216889	5 units
	60°	–	0	I	**M22-WRS-GVP** 216888	25 units		
	60°	–	0	–	**M22-WRS-A1** 229092	5 units	**M22S-WRS-A1** 229093	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	40°	–	0	–	**M22-WS-MS*[1)]** 216883	1 unit	**M22S-WS-MS*[1)]** 216884	1 unit
	60°	–	0	I	**M22-WRS-MS*[1)]** 216890	1 unit	**M22S-WRS-MS*[1)]** 216891	1 unit
	50°	–	0	–	**M22-WRS-MS*-A1[1)]** 217440	5 units	**M22S-WRS-MS*-A1[1)]** 217441	5 units

3 positions

With plunger bridge → Engineering, Page 74

MS1 lock mechanism	40° 40°	–	0	–	**M22-WS3** 216894	1 unit	**M22S-WS3** 216895	1 unit
	60° 60°	I	0	II	**M22-WRS3** 216900	5 units	**M22S-WRS3** 216901	5 units
	60° 60°	I	0	II	**M22-WRS3-GVP** 216902	25 units		
		Selectable[2)]	–	–	**M22-WRS3-A*[1)4)]** 229094	5 units	**M22S-WRS3-A*[1)4)]** 229095	5 units
MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable[2)]	–	–	**M22-WRS3-MS*-A*[1)2)]** 217442	5 units	**M22S-WRS3-MS*-A*[1)2)]** 217443	5 units
	40° 40°	–	0	–	**M22-WS3-MS*[1)]** 216896	1 unit	**M22S-WS3-MS*[1)]** 216897	1 unit
	60° 60°	I	0	II	**M22-WRS3-MS*[1)]** 216903	1 unit	**M22S-WRS3-MS*[1)]** 216904	1 unit

2 or 3 positions

MS2 – MS20 lock mechanisms (enter lock mechanism number in the part no.)	Selectable	Selectable	–	–	**M22-WRS*-MS*-*[1)3)]** 262521	1 unit		

Individual keys

Spare key for AUTO - OFF/RESET - MANUAL key-operated switches

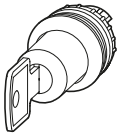
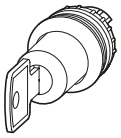
For MS1 lock mechanism	**M22-ES-MS1** 216416	5 units	
For MS2 – MS20 lock mechanism	**M22-ES-MS*** 216417	1 unit	

Notes

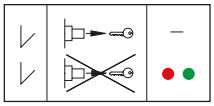
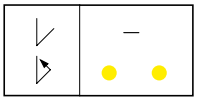
[1)] Delivery: 4 weeks after the order is received by the factory
[2)] Example: M22(S)-WRS3-MS*-A*
MS*: * = MS2 - MS20 (individual lock mechanism number)
A*: * = 1, action: , withdrawable in switch position 0
* = 2, action: , withdrawable in contactor state I, 0
* = 3, action: , withdrawable in contactor state 0, II
* = 4, action: , withdrawable in switch positions I, 0
* = 5, action: , withdrawable in switch position 0
* = 6, action: , withdrawable in switch positions 0, II
* = 7, action: , withdrawable in switch position 0
* = 10, action: , withdrawable in switch positions I, II

[3)] Example: M22(S)-WRS*-MS*-*
WRS*: * = 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)
MS*: * = * = MS2 - MS20 (individual lock mechanism number)
-*: * = Customized inscription with Label Editor; replace * with the automatically assigned filename (→ Engineering, Page 74) or "blank" if no inscription is required
[4)] Version A10 cannot be selected.

1

	Action:	Key withdrawable at position	Silver bezel **Part no.** Article no.	Std. pack	Black bezel **Part no.** Article no.	Std. pack
	= Momentary (MO) = Maintained (MA)					
Key-operated buttons for master key systems, IP66						
	Gold-plated bezel → Page 69 With 2 keys					
2 positions	40°	0	**M22-WS-SA(*)-*** 216885	5 units	**M22S-WS-SA(*)-*** 216886	5 units
	60°	0	**M22-WRS-SA(*)-*** 216892		**M22S-WRS-SA(*)-*** 216893	
	60°	0 I	**M22-WRS-SA(*)-*-A8** 285537		**M22S-WRS-SA(*)-*-A8** 285538	
3 positions	60° 60°	I 0 II	**M22-WRS3-SA(*)-*-A9** 285539		**M22S-WRS3-SA(*)-*-A9** 285581	
	40° 40°	0	**M22-WS3-SA(*)-*** 216898		**M22S-WS3-SA(*)-*** 216899	
	60° 60°	0	**M22-WRS3-SA(*)-*** 216905		**M22S-WRS3-SA(*)-*** 216906	
Individual keys for master key systems						
		0	**M22-ES-SA(*)-*** 217444	10 units		

Notes Master key systems: Delivery will take 4 to 6 weeks after the order is received at the factory
To order, use form MZ047002ZU (formerly FO276) → Data sheet in online catalog

		Action		**Part no.** Article no.	Std. pack
Configuration kit					
Not for key-operated buttons for master key systems					
For converting the key withdraw → Page 74			50°	**M22-XC-R** 216406	10 units
For converting between maintained and momentary action → Page 74			40°	**M22-XC-Y** 216407	10 units

Joysticks, IP66

Gold-plated bezel → Page 69, use M22-A4 adapter
One operating point per operating direction

	Text	Action: = Momentary (MO) = Maintained (MA)	For use with	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
2 positions			–	**M22-WJ2H** 289195	1 unit	**M22S-WJ2H** 289197	1 unit
			–	**M22-WJS2H**[1] 178570			
			–	**M22-WRJ2H** 289199		**M22S-WRJ2H** 289241	
			–	**M22-WRJS2H**[1] 178574			
			–	**M22-WJ2V** 289196		**M22S-WJ2V** 289198	
			–	**M22-WJS2V**[1] 178571			
			–	**M22-WRJ2V** 289240		**M22S-WRJ2V** 289242	
			–	**M22-WRJS2V**[1] 178575			
4 positions			–	**M22-WRJ4** 279415	5 units	**M22S-WRJ4** 279416	5 units
			–	**M22-WRJS4**[1] 178566			
			–	**M22-WJ4** 279417		**M22S-WJ4** 279418	
			–	**M22-WJS4**[1] 178568			

Joysticks with two operating points per operating direction

These joysticks are combined with M22-K10 normal N/O and M22-K10P early-make contacts.

2 positions			–	**M22-WJ2H-2P** 111508	1 unit		
			–	**M22-WJS2H-2P**[1] 178565			
			–	**M22-WJ2V-2P** 111507			
			–	**M22-WJS2V-2P**[1] 178564			
4 positions			–	**M22-WJ4-2P** 110836			
			–	**M22-WJS4-2P**[1] 178563			

Notes

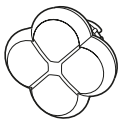
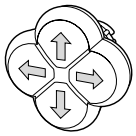
[1] With metal shaft

-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock

-*-*: * = Filename assigned by Label Editor
→ Engineering, Page 74

1

Pushbuttons, IP66, 4-way

	Text	Action: ▷ = Momentary (MO) ⌊ = Maintained (MA)	For use with	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
Opposing buttons not mechanically interlocked 	No inscription, black pushbuttons		–	**M22-D4-S** 279411	5 units	**M22S-D4-S** 279412	5 units
	Custom inscription and pushbutton color → Notes		–	**M22-D4-*-*** 279413		**M22S-D4-*-*** 279414	
	White arrows, black pushbuttons		–	**M22-D4-S-X7** 286336		**M22S-D4-S-X7** 286337	
Opposing pushbuttons mechanically interlocked	White arrows, black pushbuttons		–	**M22-DI4-S-X7** 286338		**M22S-DI4-S-X7** 286339	
	Customized pushbutton inscription and color, → Notes		–	**M22-DI4-*-*** 286340		**M22S-DI4-*-*** 286341	

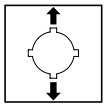
Notes

[1] With metal shaft

-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock

-*-*: * = Filename assigned by Label Editor
→ Engineering, Page 74

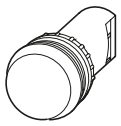
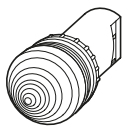
Legend plates

	Inscription	For use with	Silver bezel Part no. Article no.	Std. pack
	No inscription	Joysticks 4-way selector switches	**M22-XCK** 279433	10 units
	4 direction arrows	Joysticks 4-way selector switches	**M22-XCK1** 279434	
	2 direction arrows, can be turned 90°	2-position joysticks	**M22-XCK3** 290260	
	0-1-0-2-0-3-0-4	4-way selector switches	**M22-XCK2** 279435	
	With customized Label Editor inscription → Engineering, Page 74	Joysticks 4-way selector switches	**M22-XCK-*** 279436	

Notes

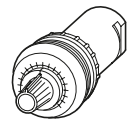
-*-*: * B = Blue, G = Green, R = Red, B = Black, W = White, Y = Yellow
Specify colors clockwise, starting at 12 o'clock

-*-*: * = File name generated by Label editor
→ Engineering, Page 74

	Color		Style	Degree of protection	Part no. Article no.	Std. pack
	Indicator lights					
	LEDs for indicator lights → Page 51 ff.					
	○	White	Flush	IP67, IP69K	**M22-L-W** 216771	10 units
	●	Red	Flush	IP67, IP69K	**M22-L-R** 216772	
	●	Green	Flush	IP67, IP69K	**M22-L-G** 216773	
	●	Yellow	Flush	IP67, IP69K	**M22-L-Y** 216774	
	●	Blue	Flush	IP67, IP69K	**M22-L-B** 216775	
	●	Orange	Flush	IP67, IP69K	**M22-L-A** 164374	
	–	Without lens[1)]	Flush	IP67, IP69K	**M22-L-X** 216776	
	–	Without lens[1)]	Flush	IP67, IP69K	**M22-L-X-GVP** 216777	50 units
	○	White	Extended, conical	IP67, IP69K	**M22-LH-W** 216778	10 units
	●	Red	Extended, conical	IP67, IP69K	**M22-LH-R** 216779	
	●	Green	Extended, conical	IP67, IP69K	**M22-LH-G** 216780	
	●	Yellow	Extended, conical	IP67, IP69K	**M22-LH-Y** 216781	
	●	Blue	Extended, conical	IP67, IP69K	**M22-LH-B** 216782	
	●	Orange	Extended, conical	IP67, IP69K	**M22-LH-A** 164375	
	Conical BA 9s indicator lights					
	Can be installed in M20/M25 knockout in base For incandescent and neon lamps of up to 2.4 W					
	●	Red	Conical	IP67, IP69K	**L-R** 208689	1 unit
	●	Green	Conical	IP67, IP69K	**L-G** 208690	
	●	Yellow	Conical	IP67, IP69K	**L-Y** 208691	
	○	White	Conical	IP67, IP69K	**L-W** 208692	
	Compact indicator lights					
	Without lamp For incandescent lamps, neon lamps, and LEDs of up to 2.4 W With BA 9s lamp socket					
	○	White	Flush	IP67, IP69K	**M22-LC-W** 216907	10 units
	●	Red	Flush	IP67, IP69K	**M22-LC-R** 216908	
	●	Green	Flush	IP67, IP69K	**M22-LC-G** 216909	
	●	Yellow	Flush	IP67, IP69K	**M22-LC-Y** 216910	
	●	Blue	Flush	IP67, IP69K	**M22-LC-B** 216911	
	–	Without lens[1)]	Flush	IP67, IP69K	**M22-LC-X** 216912	
	○	White	Extended, conical	IP67, IP69K	**M22-LCH-W** 216914	
	●	Red	Extended, conical	IP67, IP69K	**M22-LCH-R** 216915	
	●	Green	Extended, conical	IP67, IP69K	**M22-LCH-G** 216916	
	●	Yellow	Extended, conical	IP67, IP69K	**M22-LCH-Y** 216917	
	●	Blue	Extended, conical	IP67, IP69K	**M22-LCH-B** 216918	

Notes [1)] Lenses for indicator lights → Page 62

1



Potentiometers, IP66

Gold-plated bezel → Page 69
3 separate screw connections, P_{max} = 0.5 W
Accuracy of resistance value: ±10% (linear)
M22…RH with large knob

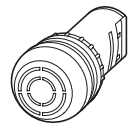
Contact sequence	Resistance R kΩ	Silver bezel Part no. Article no.	Std. pack	Black bezel Part no. Article no.	Std. pack
	1	**M22-R1K** 229489	1 unit	**M22S-R1K** 232231	1 unit
	2.2	**M22-R2K2** 171157			
	4.7	**M22-R4K7** 229490		**M22S-R4K7** 232232	
	10	**M22-R10K** 229491		**M22S-R10K** 232233	
	47	**M22-R47K** 229492		**M22S-R47K** 232234	
	100	**M22-R100K** 229493		**M22S-R100K** 232235	
	470	**M22-R470K** 229494		**M22S-R470K** 232236	
	Selectable → Notes[1)]	**M22-R*-*** 263371		**M22S-R*-*** 263372	
	Selectable → Notes[1)]	**M22-R*-*-RH** 288863			

Notes

[1)] The following information must be added to the part no. when ordering:
1st asterisk ≙ Resistance
2nd asterisk ≙ Standard scale/inscription

* – *: * = Available resistance values:
1K = 1 kΩ
2K2 = 2.2 kΩ
4K7 = 4.7 kΩ
10K = 10 kΩ
22K = 22 kΩ
47K = 47 kΩ
100K = 100 kΩ
470K = 470 kΩ
1M = 1 MΩ

* – *: * = Standard scale/inscription: X1000
No scale/inscription: "blank"



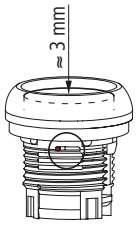
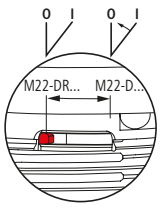
Compact acoustic device, IP40

	Part no. Article no.	Std. pack
Black front, without buzzer, with BA 9s lamp socket	**M22-AMC** 229015	1 unit

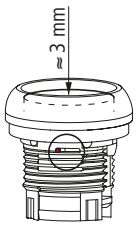
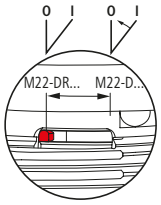
Buzzer for acoustic device

For BA 9s socket
83 dB/10 cm,
18 - 30 mA,
Positive pin at X1,
f = 2300 Hz

Continuous tone, 18 - 30 V DC	**M22-XAM** 229025	1 unit
Pulse tone, 24 V DC (+10%/-15%)	**M22-XAMP** 229028	1 unit

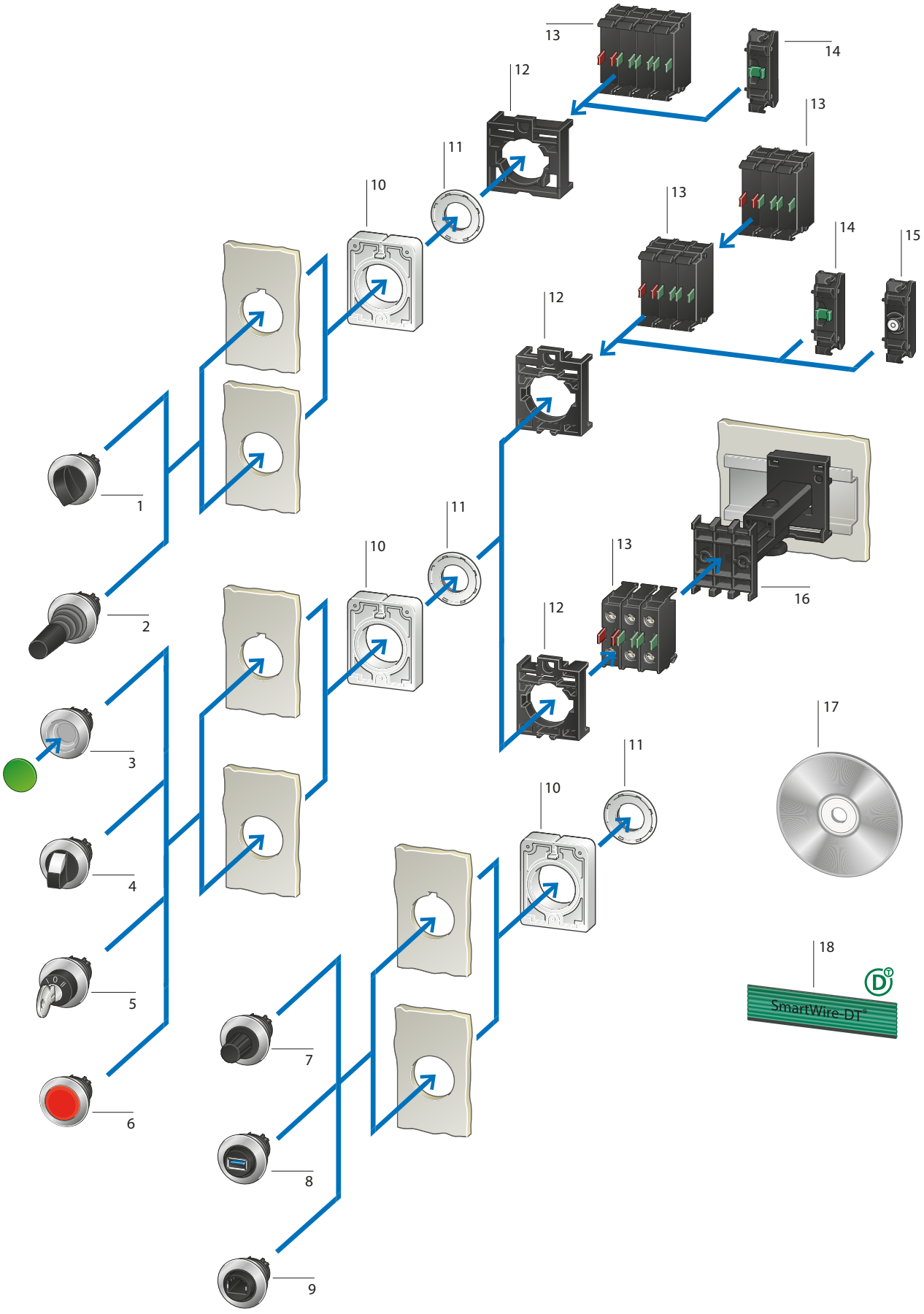
	Color Button plate	Silver bezel **Part no.** Article no.	Black bezel **Part no.** Article no.	Std. pack	Notes
Illuminated pushbutton actuators, IP67, IP69K					
	Gold-plated bezel → Page 69				
Flush Momentary	○	**M22-DL-W** 216922	**M22S-DL-W** 216924	10 units	–
	●	**M22-DL-R** 216925	**M22S-DL-R** 216926		
	●	**M22-DL-G** 216927	**M22S-DL-G** 216928		
	●	**M22-DL-Y** 216929	**M22S-DL-Y** 216930		
	●	**M22-DL-B** 216931	**M22S-DL-B** 216932		
	●	**M22-DL-A** 167429	**M22S-DL-A** 167430		
	–	**M22-DL-X** 216933	**M22S-DL-X** 216935		
	–	**M22-DL-X-GVP** 216934		50 units	
	○ I	**M22-DL-R-X0** 216936	**M22S-DL-R-X0** 216937	10 units	
	I	**M22-DL-G-X1** 216938	**M22S-DL-G-X1** 216939		
	○	**M22-DL-W-X0** 216940	**M22S-DL-W-X0** 216941		
	I	**M22-DL-W-X1** 216942	**M22S-DL-W-X1** 216943		
Flush Maintained	○	**M22-DRL-W** 216944	**M22S-DRL-W** 216945	5 units	Programmable maintained/ momentary pushbutton action 
	●	**M22-DRL-R** 216946	**M22S-DRL-R** 216947		
	●	**M22-DRL-G** 216948	**M22S-DRL-G** 216949		
	●	**M22-DRL-Y** 216950	**M22S-DRL-Y** 216951		
	●	**M22-DRL-B** 216952	**M22S-DRL-B** 216953		
	●	**M22-DRL-A** 167431			
	–	**M22-DRL-X** 216954	**M22S-DRL-X** 216956		
	–	**M22-DRL-X-GVP** 216955		50 units	
	○ I	**M22-DRL-R-X0** 216957	**M22S-DRL-R-X0** 216958	5 units	
	I	**M22-DRL-G-X1** 216959	**M22S-DRL-G-X1** 216960		
	○	**M22-DRL-W-X0** 216961	**M22S-DRL-W-X0** 216962		
	I	**M22-DRL-W-X1** 216963	**M22S-DRL-W-X1** 216964		
Extended Momentary	○	**M22-DLH-W** 216965	**M22S-DLH-W** 216966	5 units	
	●	**M22-DLH-R** 216967	**M22S-DLH-R** 216968		
	●	**M22-DLH-G** 216969	**M22S-DLH-G** 216970		
	●	**M22-DLH-Y** 216971	**M22S-DLH-Y** 216972		
	●	**M22-DLH-B** 216973	**M22S-DLH-B** 216974		
	●	**M22-DLH-A** 167433	**M22S-DLH-A** 167434		
	○ I	**M22-DLH-R-X0** 216975	**M22S-DLH-R-X0** 216976		
	I	**M22-DLH-G-X1** 216977	**M22S-DLH-G-X1** 216978		
	○	**M22-DLH-W-X0** 216979	**M22S-DLH-W-X0** 216980		
	I	**M22-DLH-W-X1** 216981	**M22S-DLH-W-X1** 216982		

1

	Color Button plate	Silver bezel **Part no.** Article no.	Black bezel **Part no.** Article no.	Std. pack	Notes
Illuminated pushbutton actuators, IP67, IP69K					
	Gold-plated bezel → Page 69				
Extended **Maintained**	○	**M22-DRLH-W** 216788	**M22S-DRLH-W** 216791	5 units	Programmable maintained/ momentary pushbutton action
	●	**M22-DRLH-R** 216789	**M22S-DRLH-R** 216792		
	●	**M22-DRLH-G** 216796	**M22S-DRLH-G** 216798		
	●	**M22-DRLH-Y** 216799	**M22S-DRLH-Y** 216801		
	●	**M22-DRLH-B** 216802	**M22S-DRLH-B** 216803		
	●	**M22-DRLH-A** 167435			
	◎	**M22-DRLH-R-X0** 216804	**M22S-DRLH-R-X0** 216808		
	◉	**M22-DRLH-G-X1** 216805	**M22S-DRLH-G-X1** 216809		
	◎	**M22-DRLH-W-X0** 216806	**M22S-DRLH-W-X0** 216810		
	◉	**M22-DRLH-W-X1** 216807	**M22S-DRLH-W-X1** 216811		
With guard ring **Momentary**	–	**M22-DGL-X** 230961		5 units	

Action:	Color		Silver bezel **Part no.** Article no.	Black bezel **Part no.** Article no.	Std. pack
= Momentary (MO) = Maintained (MA)					
Illuminated selector switches, thumb-grip, IP66					
Gold-plated bezel → Page 69 Maintained/momentary action can be changed with M22-XC-Y → Engineering, Page 74					
2 positions					
Momentary	40°	White	**M22-WLK-W** 216812	**M22S-WLK-W** 216813	5 units
	40°	Red	**M22-WLK-R** 216814	**M22S-WLK-R** 216815	
	40°	Green	**M22-WLK-G** 216816	**M22S-WLK-G** 216817	
	40°	Yellow	**M22-WLK-Y** 216818	**M22S-WLK-Y** 216819	
	40°	Blue	**M22-WLK-B** 216820	**M22S-WLK-B** 216821	
Maintained	60°	White	**M22-WRLK-W** 216823	**M22S-WRLK-W** 216824	5 units
	60°	Red	**M22-WRLK-R** 216825	**M22S-WRLK-R** 216826	
	60°	Green	**M22-WRLK-G** 216827	**M22S-WRLK-G** 216828	
	60°	Yellow	**M22-WRLK-Y** 216829	**M22S-WRLK-Y** 216830	
	60°	Blue	**M22-WRLK-B** 216831	**M22S-WRLK-B** 216832	
3 positions					
Momentary	40° 40°	White	**M22-WLK3-W** 216833	**M22S-WLK3-W** 216834	5 units
	40° 40°	Red	**M22-WLK3-R** 216835	**M22S-WLK3-R** 216836	
	40° 40°	Green	**M22-WLK3-G** 216837	**M22S-WLK3-G** 216838	
	40° 40°	Yellow	**M22-WLK3-Y** 216839	**M22S-WLK3-Y** 216840	
	40° 40°	Blue	**M22-WLK3-B** 216841	**M22S-WLK3-B** 216842	
Maintained	60° 60°	White	**M22-WRLK3-W** 216843	**M22S-WRLK3-W** 216844	5 units
	60° 60°	Red	**M22-WRLK3-R** 216845	**M22S-WRLK3-R** 216846	
	60° 60°	Green	**M22-WRLK3-G** 216847	**M22S-WRLK3-G** 216848	
	60° 60°	Yellow	**M22-WRLK3-Y** 216849	**M22S-WRLK3-Y** 216850	
	60° 60°	Blue	**M22-WRLK3-B** 216851	**M22S-WRLK3-B** 216852	
	Selectable	Selectable → Notes	**M22-WRLK3-*/*** 217438	**M22S-WRLK3-*/*** 217439	
	V configuration				
	60°	White	**M22-WLKV-W** 284393	**M22S-WLKV-W** 284398	5 units
	60°	Red	**M22-WLKV-R** 284394	**M22S-WLKV-R** 284399	
	60°	Green	**M22-WLKV-G** 284395	**M22S-WLKV-G** 284540	
	60°	Yellow	**M22-WLKV-Y** 284396	**M22S-WLKV-Y** 284543	
	60°	Blue	**M22-WLKV-B** 284397	**M22S-WLKV-B** 284544	
Notes	Example: M22-WRLK3-*/* */*: *= 1 for or 2 for */*: *= Color				

1 System overview



M30 4-way selector switches 1
4 positions
With rotary head or thumb-grip
0-1-0-2-0-3-0-4 maintained action
→ Page 41

M30 joysticks 2
2 or 4 positions
→ Page 44

M30 pushbuttons 3
Momentary and maintained
Flush
Colors: white, green, red, yellow, blue, black
Illuminated pushbutton actuators
Colors: white, green, red, yellow, blue, orange
→ Page 40

M30 selector switches 4
2 and 3 positions
With rotary head, thumb-grip
Programmable maintained/ momentary action
Illuminated selector switches with transparent thumb-grip
Colors: white, green, red, yellow, blue
→ Page 41

M30 key-operated buttons 5
For individual lock mechanisms
2 or 3 positions
Programmable momentary/ maintained action and key withdraw
Suitable for master key systems
→ Page 42

M30 indicator lights 6
Colors: white, green, red, yellow, blue, orange
→ Page 44

SmartWire-DT encoders, M30 potentiometers 7
Resistances of 1 kΩ - 1 MΩ
3 individual connections
→ Page 47

M30 panel mount connectors 8
USB 3.0
→ Page 71

M30 panel mount connectors 9
RJ45
→ Page 71

RMQ-AFX 10
Anti-rotation tab
Included with the equipment supplied with M30 front elements

Threaded rings 11
→ Page 70

Mounting adapters 12
For flush mounting
For contact and LED elements
→ Page 48

Contact elements 13
N/C and N/O
Universal contacts suitable for use with electronic devices
Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
Max. 2 levels, each with 3 contact elements
→ Page 48

Flat Rear contact elements 14
Cage Clamp with push-in terminals
→ Page 53

Flat Rear LED elements 15
Cage Clamp with push-in terminals
→ Page 53

Telescopic clip 16
For adjusting the depth of rear mounting devices in CI and CI-K enclosures and cabinets
→ Page 69

Convenient labeling 17
A laser inscription with any text and/ or symbol can be added to all button plates, indicator lights, and add-on legend plates from the RMQ-Silver range of products.
Download:
www.eaton.eu/config/rmq
Keyword: "Pushbutton Configurator
→ Label Editor function"

SmartWire-DT 18

Product characteristics
- Clip-fit assembly modular system
- Metal bezel, flush
- Mounting hole diameter: 30.5 mm
- Minimum grid dimension: 40 x 50 mm
- Min. degree of protection: IP66
- Up to 6 contacts per mounting location
- For switching differing potentials
- Approved throughout the world

1

Product selection

	Button plate	Part no. Article no.	Std. pack
	Pushbuttons		
	IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
Momentary	●	**M30C-FD-S** 182959	1 unit
	○	**M30C-FD-W** 182960	
	●	**M30C-FD-R** 182918	
	●	**M30C-FD-G** 182919	
	●	**M30C-FD-Y** 182920	
	●	**M30C-FD-B** 182921	
	●	**M30C-FD-GR** 182923	
	◎	**M30C-FD-S-X0** 182961	
	○ I	**M30C-FD-W-X1** 182962	
	○ T	**M30C-FD-W-X11** 182963	
	◎	**M30C-FD-R-X0** 182939	
	I	**M30C-FD-G-X1** 182956	
	e/≈	**M30C-FD-B-X217** 182967	
	▽	**M30C-FD-GR-X66** 182964	
Momentary	Without button plate	**M30C-FD-X** 182922	1 unit
Maintained[1]	●	**M30C-FDR-S** 182942	1 unit
	○	**M30C-FDR-W** 182943	
	●	**M30C-FDR-R** 182944	
	●	**M30C-FDR-G** 182945	
	●	**M30C-FDR-Y** 182946	
	●	**M30C-FDR-B** 182947	
	◎	**M30C-FDR-S-X0** 182937	
	○ I	**M30C-FDR-W-X1** 182938	
	◎	**M30C-FDR-R-X0** 182936	
	I	**M30C-FDR-G-X1** 182931	
Maintained[1]	Without button plate	**M30C-FDR-X** 182948	1 unit

Notes [1] Maintained/momentary action can be changed on device

	Action:	Button plate	Part no. Article no.	Std. pack	Ordering notes
	= Momentary (MO) = Maintained (MA)				
	Selector switches				
	IP66 Metal bezel Front dimensions: 36 mm diameter Maintained/momentary action can be changed with M22-XC-Y configuration adapters				
	2 positions				
With rotary head	40°		**M30C-FW** 187087	1 unit	
	60°		**M30C-FWR** 187088		
	60°	AUTO HAND	**M30C-FWR-X91** 187113		
	60°		**M30C-FWR-X92** 187114		
	60°	Customized inscription available	**M30C-FWR-*** 187105		* = With customized Label Editor inscription → Page 74
With thumb-grip	40°		**M30C-FWK** 187103	1 unit	
	60°		**M30C-FWRK** 187109		
With thumb-grip	60°		**M30C-FWKV** 187102	1 unit	
	3 positions[1]				
With rotary head	40° 40°		**M30C-FW3** 187089	1 unit	
	60° 60°		**M30C-FWR3** 187090		
	60° 60°		**M30C-FWR3-X7** 187107		
	60° 60°		**M30C-FWR3-X94** 187108		
	60° 60°	Customized in-scription available	**M30C-FWR3-*** 187106		* = With customized Label Editor inscription → Page 74
With thumb-grip	40° 40°		**M30C-FWK3** 187104	1 unit	
	60° 60°		**M30C-FWRK3** 187110		
	Selectable		**M30C-FWRK3-*** 187111		* = MAMO (for 60° 40°) or MOMA (for 40° 60°)
	4 positions[2), 3)]				
With rotary head			**M30C-FWR4** 187091	1 unit	
With thumb-grip			**M30C-FWRK4** 187112	1 unit	

Notes

[1] With plunger bridge for middle contact
[2] Not compatible with configuration adapters
[3] Use M22-A4 mounting adapter → Page 69

1

= Momentary (M0)
= Maintained (MA)

Key-operated buttons for individual lock mechanisms

IP66
Metal bezel
Front dimensions: 36 mm diameter
Maintained/momentary action can be changed with M22-XC-Y configuration adapters
Key withdraw can be changed with M22-XC-… configuration adapters

2 positions

	Action:	Lock mechanism	Key withdrawable at position			Information about equipment supplied	**Part no.** Article no.	Std. pack
	40°		0	-	-	With 1 key	**M30C-FWS** 187068	1 unit
	60°		0	-	I		**M30C-FWRS** 187092	
	60°		0	-	-		**M30C-FWRS-A1** 187047	
	60°		I	-	II		**M30C-FWRS-X95** 187067	
	40°	Selectable	0	-	-		**M30C-FWS-MS*** 187072	
	60°	Selectable	0	-	I		**M30C-FWRS-MS*** 187048	
	40°	MS2	0	-	-		**M30C-FWS-MS2** 187073	
	40°	MS3	0	-	-		**M30C-FWS-MS3** 187074	
	60°	MS3	0	-	I		**M30C-FWRS-MS3** 187053	
	60°	MS4	0	-	I		**M30C-FWRS-MS4** 187055	
	60°	MS5	0	-	I		**M30C-FWRS-MS5** 187057	
	40°	MS5	0	-	-		**M30C-FWS-MS5** 187075	
	60°	MS6	0	-	I		**M30C-FWRS-MS6** 187059	
	60°	MS7	0	-	I		**M30C-FWRS-MS7** 187060	
	60°	MS8	0	-	I		**M30C-FWRS-MS8** 187061	
	60°	MS10	0	-	I		**M30C-FWRS-MS10** 187051	
	60°	Selectable	0	-	-		**M30C-FWRS-MS*-A1** 187049	
	60°	MS3	0	-	-		**M30C-FWRS-MS3-A1** 187054	
	60°	MS4	0	-	-		**M30C-FWRS-MS4-A1** 187056	
	60°	MS5	0	-	-		**M30C-FWRS-MS5-A1** 187058	
	60°	MS10	0	-	-		**M30C-FWRS-MS10-A1** 187052	
	60°	Selectable	-	-	I		**M30C-FWRS-MS*-A21-*** 187050	
	60°	Ronis 455	0	-	I	With 2 keys	**M30C-FWRS-RS** 187062	1 unit
	60°	Ronis 455	0	-	-		**M30C-FWRS-RS-A1** 187063	

	Action:	Lock mechanism	Key withdrawable at position			Information about equipment supplied	**Part no.** Article no.	Std. pack
	= Momentary (M0) = Maintained (MA)							
	Key-operated buttons for individual lock mechanisms							
	3 positions							
	40° 40°		0	-	-	With 1 key	**M30C-FWS3** 187069	1 unit
	40° 40°	Selectable	0	-	-		**M30C-FWS3-MS*** 187070	
	60° 60°		0	I	II		**M30C-FWRS3** 187094	
	60° 60°	Selectable	-	Selectable	-		**M30C-FWRS3-MS*-A*** 187096	
	60° 60°		-	Selectable	-		**M30C-FWRS3-A*** 187095	
	60° 60°	MS3	0	-	II		**M30C-FWRS3-MS3** 187097	
	60° 60°	Ronis 455	0	I	II	With 2 keys	**M30C-FWRS3-RS** 187098	1 unit
	60° 60°	Ronis 455	0	-	-		**M30C-FWRS3-RS-A1** 187099	
	2 or 3 positions							
		Selectable	-	-	-	With 1 key	**M30C-FWRS*-MS*-*** 187093	1 unit
	Key-operated buttons for master key systems							
	Metal bezel IP66 Front dimensions: 36 mm diameter To order, use form MZ047002ZU (formerly FO276) → Data sheet in online catalog Delivery will take 4 to 6 weeks after the order is received at the factory							
	2 positions							
	40°		0	-	-	With 2 keys	**M30C-FWS-SA(*)-*** 187076	1 unit
	60°		0	-	-		**M30C-FWRS-SA(*)-*** 187064	
	60°		0	-	I		**M30C-FWRS-SA(*)-*-A8** 187066	
	3 positions							
	40° 40°		0	-	-	With 2 keys	**M30C-FWS3-SA(*)-*** 187071	1 unit
	60° 60°		0	-	-		**M30C-FWRS3-SA(*)-*** 187100	
	60° 60°		0	I	II		**M30C-FWRS3-SA(*)-*-A9** 187101	

Notes

MS*: * = MS2, …, MS20; (enter lock mechanism number in the part no.)

A*: * = 1, action: , withdrawable in position 0

* = 2, action: , withdrawable in positions I, 0

* = 3, action: , withdrawable in positions 0, II

* = 4, action: , withdrawable in positions I, 0

* = 5, action: , withdrawable in position 0

* = 6, action: , withdrawable in positions 0, II

* = 7, action: , withdrawable in position 0

* = 10, action: , withdrawable in positions I, II (not for item M30C-FWRS3-A*)

-*: * = Customized inscription with Label Editor; replace * with the automatically assigned filename (→ Page 74) or "blank" if no inscription is required

WRS*: 2 or 3 positions (action and key withdraw as M22-WRS or M22-WRS3)

Joysticks

With one operating point per operating direction
With metal shaft
IP66
Metal bezel
Front dimensions: 36 mm diameter

	Action: ▷ = Momentary (MO) ▽ = Maintained (MA)	Part no. Article no.	Std. pack
2 positions	—	**M30C-FWRJS2H** 187078	1 unit
2 positions	|	**M30C-FWRJS2V** 187065	
4 positions	✥	**M30C-FWJS4** 187077	

Indicator lights

IP67
Metal bezel
Front dimensions: 36 mm diameter

	Lens		
	○	**M30C-FL-W** 183287	1 unit
	●	**M30C-FL-R** 183282	
	●	**M30C-FL-G** 183283	
	●	**M30C-FL-Y** 183285	
	●	**M30C-FL-B** 183284	
	●	**M30C-FL-A** 183286	
* = With customized Label Editor inscription → Page 74	○	**M30C-FL-W-*** 183293	
	●	**M30C-FL-R-*** 183288	
	●	**M30C-FL-G-*** 183289	
	●	**M30C-FL-Y-*** 183291	
	●	**M30C-FL-B-*** 183290	
	●	**M30C-FL-A-*** 183292	

	Button plate	Part no. Article no.	Std. pack
	Illuminated pushbutton actuators		
	IP67, IP69K Metal bezel Front dimensions: 36 mm diameter Flush		
Momentary	○	**M30C-FDL-W** 182925	1 unit
		M30C-FDL-R 182926	
		M30C-FDL-G 182927	
		M30C-FDL-Y 182928	
		M30C-FDL-B 182940	
		M30C-FDL-A 182924	
	○	**M30C-FDL-W-X0** 182929	
	○	**M30C-FDL-W-X1** 182930	
	◇	**M30C-FDL-W-X100** 182966	
		M30C-FDL-R-X0 182958	
		M30C-FDL-G-X1 182957	
		M30C-FDL-G-X32 182968	
		M30C-FDL-Y-X162 182965	
Momentary	Without button plate	**M30C-FDL-X** 182941	1 unit
Maintained[1]	○	**M30C-FDRL-W** 182950	1 unit
		M30C-FDRL-R 182951	
		M30C-FDRL-G 182952	
		M30C-FDRL-Y 182953	
		M30C-FDRL-B 182954	
		M30C-FDRL-A 182949	
	○	**M30C-FDRL-W-X0** 182934	
	○	**M30C-FDRL-W-X1** 182935	
		M30C-FDRL-R-X0 182933	
		M30C-FDRL-G-X1 182932	
Maintained[1]	Without button plate	**M30C-FDRL-X** 182955	1 unit
	Notes	[1] Maintained/momentary action can be changed on device	

1

Action:	Thumb-grip	Part no. Article no.	Std. pack
= Momentary (MO)			
= Maintained (MA)			

Illuminated selector switches

IP66
With thumb-grip
Metal bezel
Front dimensions: 36 mm diameter
Maintained/momentary action can be changed with M22-XC-Y configuration adapters

2 positions

40°	○	**M30C-FWLK-W** 187128	1 unit
60°	○	**M30C-FWRLK-W** 187026	
40°	● red	**M30C-FWLK-R** 187122	
60°	● red	**M30C-FWRLK-R** 187025	
40°	● green	**M30C-FWLK-G** 187121	
60°	● green	**M30C-FWRLK-G** 187024	
40°	● yellow	**M30C-FWLK-Y** 187129	
60°	● yellow	**M30C-FWRLK-Y** 187027	
40°	● blue	**M30C-FWLK-B** 187120	
60°	● blue	**M30C-FWRLK-B** 187023	

2 positions (V configuration)

60°	○	**M30C-FWLKV-W** 187126	1 unit
60°	● red	**M30C-FWLKV-R** 187125	
60°	● green	**M30C-FWLKV-G** 187124	
60°	● yellow	**M30C-FWLKV-Y** 187127	
60°	● blue	**M30C-FWLKV-B** 187123	

3 positions

40° 40°	○	**M30C-FWLK3-W** 187118	1 unit
60° 60°	○	**M30C-FWRLK3-W** 187134	
40° 40°	● red	**M30C-FWLK3-R** 187117	
60° 60°	● red	**M30C-FWRLK3-R** 187133	
40° 40°	● green	**M30C-FWLK3-G** 187116	
60° 60°	● green	**M30C-FWRLK3-G** 187132	
40° 40°	● yellow	**M30C-FWLK3-Y** 187119	
60° 60°	● yellow	**M30C-FWRLK3-Y** 187022	
40° 40°	● blue	**M30C-FWLK3-B** 187115	
60° 60°	● blue	**M30C-FWRLK3-B** 187131	
Selectable	Selectable	**M30C-FWRLK3-*/*[1)]** 187130	

Notes

[1)] */: * = MAMO (for 60° 40°) or MOMA (for 40° 60°)
/*: * = B (blue), G (green), R (red), B (black), W (white), Y (yellow)

	Resistance R kΩ	Scale/inscription	Contact sequence	**Part no.** Article no.	Std. pack
	Potentiometers, IP65 3 individual screw connections Resistance accuracy: ±10% (linear) Metal bezel Rated power P = 0.5 W				
	1	Standard scale/inscription		**M30C-FR1K** 187029	1 unit
	4.7			**M30C-FR4K7** 187030	
	10			**M30C-FR10K** 187035	
	47			**M30C-FR47K** 187031	
	100			**M30C-FR100K** 187032	
	470			**M30C-FR470K** 187033	
	2.2			**M30C-FR2K2** 187034	
	22			**M30C-FR22K** 187036	
	1000			**M30C-FR1M** 187037	
	1	Without scale/inscription		**M30C-FR1K-BLANK** 187038	
	2.2			**M30C-FR2K2-BLANK** 187039	
	4.7			**M30C-FR4K7-BLANK** 187040	
	10			**M30C-FR10K-BLANK** 187041	
	22			**M30C-FR22K-BLANK** 187042	
	47			**M30C-FR47K-BLANK** 187043	
	100			**M30C-FR100K-BLANK** 187044	
	470			**M30C-FR470K-BLANK** 187045	
	1000			**M30C-FR1M-BLANK** 187046	
	Selectable[1]	Selectable[2]		**M30C-FR*-*** 187081	
	SmartWire-DT potentiometers, IP65 Only in conjunction with M22-SWD-R function element				
	–	Silver bezel M22		**M22-R-SWD** 179292	1 unit
	–	Metal bezel Flat Front		**M30C-FR-SWD** 187080	1 unit
	SmartWire-DT encoders, IP65 With actuation function Only in conjunction with M22-SWD-INC function element				
	–	Silver bezel M22	–	**M22-INC-SWD** 179981	1 unit
	–	Metal bezel Flat Front	–	**M30C-FINC-SWD** 187079	1 unit

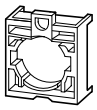
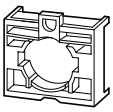
Notes

[1] Wildcard: Available resistance values:
1K = 1 kΩ, 2K2 = 2.2 kΩ, 4K7 = 4.7 kΩ, 10K = 10 kΩ,
22K = 22 kΩ, 47K = 47 kΩ, 100K = 100 kΩ, 470K = 470 kΩ, 1M = 1 MΩ

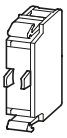
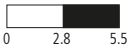
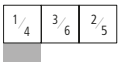
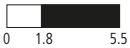
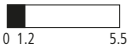
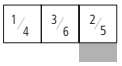
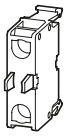
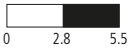
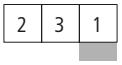
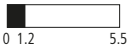
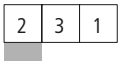
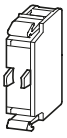
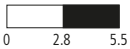
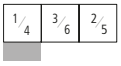
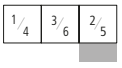
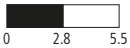
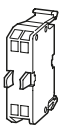
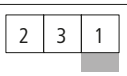
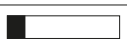
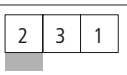
[2] Wildcard: Standard scale/inscription: X1000 Without scale/inscription: "-"

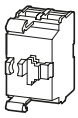
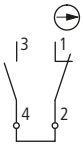
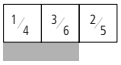
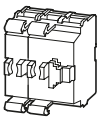
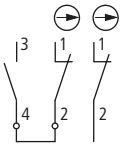
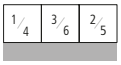
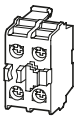
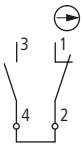
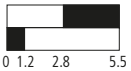
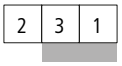
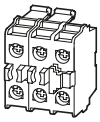
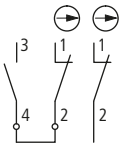
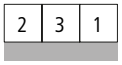
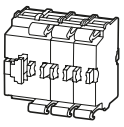
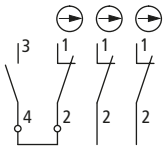
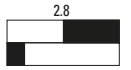
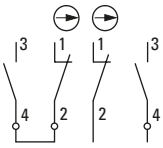
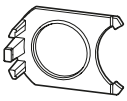
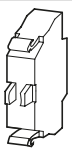
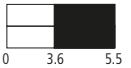
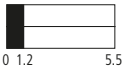
1

Mounting adapters

		Configuration	Part no. Article no.	Std. pack
	Mounting adapter (front mounting) for 3 contact/LED elements For M22-(C)K... contact elements and M22-(C)LED... LED elements. Sequence numbers on mounting adapter	1/4 3/6 2/5	**M22-A** 216374	50 units
			M22-A-GVP 216375	500 units
	Mounting adapter (front mounting) for 4 contact elements, can be used with M22-WR4, M22-D4, M22-WJ…, M22-WRJ… For M22-(C)K contact elements	3 2 4 1	**M22-A4** 279437	10 units

Contact elements

	Terminal type	Contact configuration: ⊖ = Safety function implemented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack
Front mounting 	Screw terminals	1 N/O				**M22-K10** 216376	20 units
		1 N/O				**M22-K10-GVP** 216377	500 units
		1 N/O				**M22-K10P** 110835	20 units
		1 N/C ⊖				**M22-K01** 216378	20 units
		1 N/C ⊖				**M22-K01-GVP** 216379	500 units
		1 N/C ⊖				**M22-K01D** 262165	20 units
Base mounting 	Screw terminals	1 N/O				**M22-KC10** 216380	20 units
		1 N/O				**M22-KC10-GVP** 216381	200 units
		1 N/C ⊖				**M22-KC01** 216382	20 units
		1 N/C ⊖				**M22-KC01-GVP** 216383	200 units
Front mounting 	Spring-clamp terminals	1 N/O				**M22-CK10** 216384	20 units
		1 N/C ⊖				**M22-CK01** 216385	
		1 N/C ⊖				**M22-CK01D** 262510	
Base mounting 	Spring-clamp terminals	1 N/O				**M22-CKC10** 216386	20 units
		1 N/C ⊖				**M22-CKC01** 216387	20 units

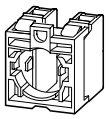
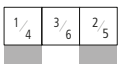
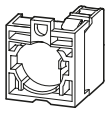
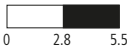
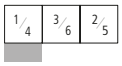
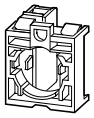
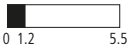
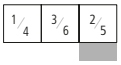
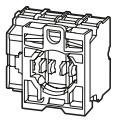
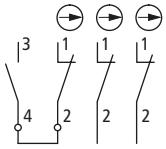
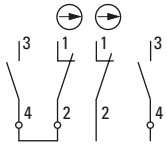
	Terminal type	Contact configuration: ⊖ = Safety function implemented with positive opening as specified in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	Part no. Article no.	Std. pack
Self-monitoring contact elements							
N/O is actuated when mounted on the pushbutton.							
Front mounting 	Screw terminals	1 N/O 1 N/C ⊖				**M22-K01SMC10** 121472	1 unit
		1 N/O 2 N/C ⊖				**M22-K02SMC10** 121474	
Base mounting 	Screw terminals	1 N/O 1 N/C ⊖				**M22-KC01SMC10** 121473	1 unit
		1 N/O 2 N/C ⊖				**M22-KC02SMC10** 121720	
		1 N/O 3 N/C ⊖			–	**M22-KC03SMC10**[1)] 173028	
		2 N/O 2 N/C ⊖			–	**M22-KC12SMC10**[1)] 173029	
Signal contact actuator for SMC 							
For actuating the N/O contact in self-monitoring M22-…03(12)SMC10 contact elements Required for two-channel version with additional signaling (auxiliary) contact							
						M22-XSMC 173030	10 units
Double-contact elements 							
Front mounting. When using M22-PV… emergency stop buttons, max. 2 contact elements = 4 N/C / N/O							
	Cage Clamp	2 N/O			–	**M22-CK20** 107898	20 units
		2 N/C			–	**M22-CK02** 107899	
		1 N/O 1 N/C ⊖			–	**M22-CK11** 107940	

Notes

[1)] The N/O is actuated when mounted with M22-XSMC.

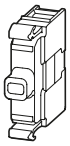
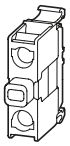
Configuration of mounting adapter with sequence numbers as defined in EN 50013

x = Sequence number on mounting adapter
y = Function number on contact element

	Terminal type	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	**Part no.** Article no.	Std. pack
	Complete modules						
	Combination of contact element with screw terminals and mounting adapter, front mounting						
	Screw terminals	1 N/O 1 N/C ⊖				**M22-AK11** 216505	5 units
		1 N/O				**M22-AK10** 216504	
		1 N/C ⊖				**M22-AK01** 216503	
	Combination of contact element and self-monitoring contact element M22-K01SMC10 with screw terminals, M22-A mounting adapter, and M22-XSMC signal contact actuator. The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.						
		1 N/O 3 N/C ⊖			–	**M22-AK03SMC10** 173026	1 unit
		2 N/O 2 N/C ⊖			–	**M22-AK12SMC10** 173027	1 unit

Notes Configuration of mounting adapter with sequence numbers as defined in EN 50013

x = Sequence number on mounting adapter
y = Function number on contact element

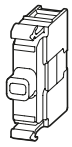
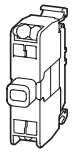
	Rated operating voltage U_e V	Rated operational current I_e mA	Power consumption P W	Color	Part no. Article no.	Std. pack
LED elements with screw terminals						
	→ Page 75					
Front mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	**M22-LED-W** 216557	20 units
				●	**M22-LED-R** 216558	
				●	**M22-LED-G** 216559	
				●	**M22-LED-B** 218057	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	**M22-LED230-W** 216563	20 units
				●	**M22-LED230-R** 216564	
				●	**M22-LED230-G** 216565	
				●	**M22-LED230-B** 218059	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	**M22-LED230TA-W**[1] 182905	20 units
				●	**M22-LED230TA-R**[1] 182906	
				●	**M22-LED230TA-G**[1] 182907	
				●	**M22-LED230TA-B**[1] 182908	
	207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	–	**M22-LED230H-***[2] 106521	20 units
Base mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	**M22-LEDC-W** 216560	20 units
				●	**M22-LEDC-R** 216561	
				●	**M22-LEDC-G** 216562	
				●	**M22-LEDC-B** 218058	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	**M22-LEDC230-W** 216566	20 units
				●	**M22-LEDC230-R** 216567	
				●	**M22-LEDC230-G** 216568	
				●	**M22-LEDC230-B** 218060	
	207 - 264 V AC, 50/60 Hz	12 - 15	0.33 at 230 V	–	**M22-LEDC230H-***[2] 106522	20 units

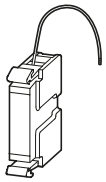
Notes

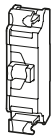
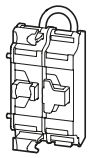
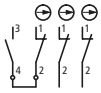
[1] With interference signal protection
[2] Replace * with color:
W = White, R = Red, G = Green, B = Blue

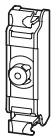
For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches, the following applies:
M22…-R only in combination with M22-LED…-R
M22…-G only in combination with M22-LED…-G
M22…-W only in combination with M22-LED…-W
M22…-Y only in combination with M22-LED…-W
M22…-B in combination with M22-LED…-W or M22-LED…-B

1

	Rated operating voltage U_e V	Rated operational current I_e mA	Power consumption P W	Color	Part no. Article no.	Std. pack
LED elements with Cage Clamp						
→ Page 75 Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden, Germany						
Front mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	**M22-CLED-W** 216569	20 units
				●	**M22-CLED-R** 216570	
				●	**M22-CLED-G** 216571	
				●	**M22-CLED-B** 218061	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	**M22-CLED230-W** 216575	20 units
				●	**M22-CLED230-R** 216576	
				●	**M22-CLED230-G** 216577	
				●	**M22-CLED230-B** 218063	
Base mounting 	12 - 30 V AC/DC	8 - 15	0.26 at 24 V	○	**M22-CLEDC-W** 216572	20 units
				●	**M22-CLEDC-R** 216573	
				●	**M22-CLEDC-G** 216574	
				●	**M22-CLEDC-B** 218062	
	85 - 264 V AC, 50/60 Hz	5 - 15	0.33 at 230 V	○	**M22-CLEDC230-W** 216578	20 units
				●	**M22-CLEDC230-R** 216579	
				●	**M22-CLEDC230-G** 216580	
				●	**M22-CLEDC230-B** 218064	
Notes	For pushbuttons, indicator lights, illuminated pushbutton actuators, and illuminated selector switches, the following applies: M22…-R only in combination with M22-LED…-R M22…-G only in combination with M22-LED…-G M22…-W only in combination with M22-LED…-W M22…-Y only in combination with M22-LED…-W M22…-B in combination with M22-LED…-W or M22-LED…-B					

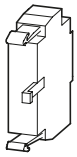
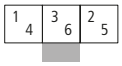
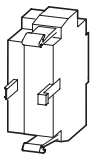
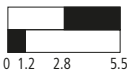
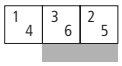
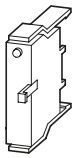
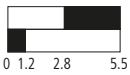
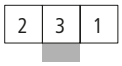
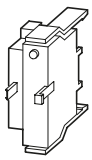
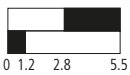
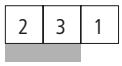
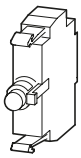
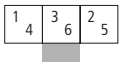
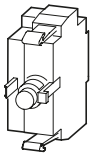
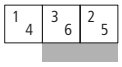
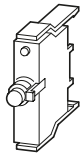
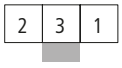
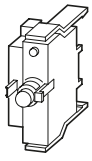
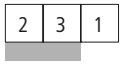
			Part no. Article no.	Std. pack
	**LED series elements with screw terminals**			
	Front and base mounting → Page 75			
	LED resistor element For connecting 12 - 30 V LED elements	42 - 60 V AC/DC	**M22-XLED60** 231078	10 units
		220 V AC/DC	**M22-XLED220**[1] 271541	
	LED test element For decoupled function test (lamp test)	12 - 240 V AC/DC	**M22-XLED-T** 231079	
		85 - 264 V AC	**M22-XLED230-T** 231080	
	Notes	[1] Maximum ambient temperature: -25 °C to +55 °C The LED's brightness will be reduced.		

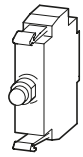
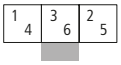
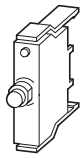
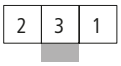
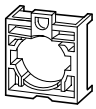
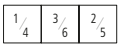
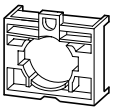
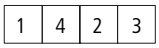
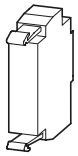
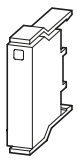
	Terminal type	Contact configuration: ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1	Contact sequence	Contact travel diagram, stroke in connection with front element	Part no. Article no.	Std. pack
Front mounting 	**Contact elements (Flat Rear with Cage Clamp, push-in)**					
	→ Page 75 Cage Clamp is a registered trademark of Wago Kontakttechnik GmbH, Minden, Germany					
	Cage Clamp, push-in	1 N/C ⊖		0 3.3 5.8 mm M22-FK01 ZW = 5.5 mm	**M22-FK01** 180791	20 units
		1 N/O		0 3.6 5.8 mm M22-FK10	**M22-FK10** 180792	
Front mounting 	**Self-monitoring contact element (Flat Rear with Cage Clamp, push-in)**					
	N/O is actuated when mounted on the pushbutton.					
	Cage Clamp, push-in	1 N/C ⊖		NO: 0 3.3 5.8 mm, ZW = 5.5 mm NC: 0 3.6 5.8 mm	**M22-FK01SMC10** 180793	1 unit
	Complete assembly (Flat Rear with Cage Clamp, push-in)					
	Combination of contact element and self-monitoring contact element M22-FK01SMC10, M22-A mounting adapter, and M22-XSMC signal contact actuator. The N/O in the self-monitoring contact element is actuated when mounted with M22-XSMC.					
	Cage Clamp, push-in	3 N/C ⊖		NO: 0 3.3 5.8 mm, ZW = 5.5 mm NC: 0 3.6 5.8 mm	**M22-AFK03SMC10** 180794	1 unit

	Rated operating voltage	Rated operational current	Power consumption	Color	Part no. Article no.	Std. pack
	U_e	I_e	P			
	V	mA	W			
Front mounting 	**LED elements (Flat Rear with Cage Clamp, push-in)**					
	12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V	○	**M22-FLED-W** 180795	20 units
	12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		**M22-FLED-B** 180796	
	12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		**M22-FLED-G** 180797	
	12 - 30 V AC/DC, 50/60 Hz (standard: 24 V AC/DC)	8 - 15	0.26 at 24 V		**M22-FLED-R** 180798	
	24 V DC	10 - 15	0.36 at 24 V		**M22-FLED-RG**[1)] 180799	
	24 V DC	8 - 15	0.36 at 24 V		**M22-FLED-RGB**[1)] 180800	

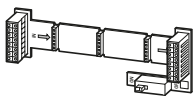
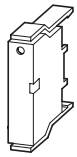
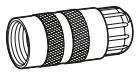
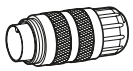
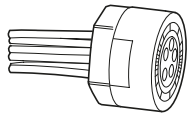
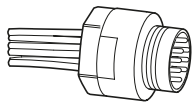
Notes [1)]

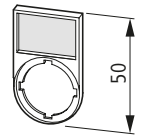
		Terminal color			
		X1	X2	X3	X4
		+R	+G	+B	GND
M22-FLED-RG	Red	x			x
	Green		x		x
	Yellow	x	x		x
M22-FLED-RGB	Red	x			x
	Green		x		x
	Yellow	x	x		x
	White	x	x	x	x
	Blue			x	x
	Violet	x		x	x
	Turquoise		x	x	x

	Number of contacts	Contact sequence	Contact travel diagram, stroke in connection with front element	Configuration	LED color	**Part no.** Article no.	Std. pack
Function elements							
Front mounting 	1				No LED	**M22-SWD-K11** 115964	20 units
	2				No LED	**M22-SWD-K22** 115965	10 units
Base mounting 	1				No LED	**M22-SWD-KC11** 115995	20 units
	2				No LED	**M22-SWD-KC22** 115996	10 units
Front mounting 	1				○	**M22-SWD-K11LED-W** 115972	20 units
					●	**M22-SWD-K11LED-B** 115973	
					●	**M22-SWD-K11LED-G** 115974	
					●	**M22-SWD-K11LED-R** 115975	
	2				○	**M22-SWD-K22LED-W** 115978	10 units
					●	**M22-SWD-K22LED-B** 115979	
					●	**M22-SWD-K22LED-G** 115980	
					●	**M22-SWD-K22LED-R** 115981	
Base mounting 	1				○	**M22-SWD-K11LEDC-W** 116003	20 units
					●	**M22-SWD-K11LEDC-B** 116004	
					●	**M22-SWD-K11LEDC-G** 116005	
					●	**M22-SWD-K11LEDC-R** 116006	
	2				○	**M22-SWD-K22LEDC-W** 116009	10 units
					●	**M22-SWD-K22LEDC-B** 116010	
					●	**M22-SWD-K22LEDC-G** 116011	
					●	**M22-SWD-K22LEDC-R** 116012	

		Configuration	LED color	Part no. Article no.	Std. pack
	LED elements				
Front mounting 			○	**M22-SWD-LED-W** 115966	20 units
			●	**M22-SWD-LED-B** 115967	
			●	**M22-SWD-LED-G** 115968	
			●	**M22-SWD-LED-R** 115969	
Base mounting 			○	**M22-SWD-LEDC-W** 115997	20 units
			●	**M22-SWD-LEDC-B** 115998	
			●	**M22-SWD-LEDC-G** 115999	
			●	**M22-SWD-LEDC-R** 116000	
	Mounting adapters				
Front mounting 	For 1 M22-SWD-K…function element or M22-SWD-LED…LED element In addition, 1 or 2 M22-K.. contact elements possible Sequence number on mounting adapter		–	**M22-A** 216374	50 units
	For 2 M22-SWD-K22…function elements For use with M22-WR4, M22-WRJ4, M22-D4 in conjunction with M22-(SWD)-K		–	**M22-SWD-A4** 116016	10 units
	IP20 universal modules				
Front mounting 	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the SWD ribbon cable			**M22-SWD-NOP** 147637	20 units
Base fixing 	For SmartWire-DT modules that have been configured as part of the SmartWire-DT system but have not yet been installed on the M22-SWD-I… printed circuit board			**M22-SWD-NOPC** 147638	20 units

1

		Part no. Article no.	Std. pack
	**Printed circuit boards** PCBs for M22-I.. surface mounting enclosure for housing M22-SWD...K base mounting function elements Integrated, connectable SmartWire-DT bus termination resistor		
	Number of mounting locations: 1	**M22-SWD-I1-LP01** 115990	1 unit
	Number of mounting locations: 2	**M22-SWD-I2-LP01** 115991	
	Number of mounting locations: 3	**M22-SWD-I3-LP01** 115992	
	Number of mounting locations: 4	**M22-SWD-I4-LP01** 115993	
	Number of mounting locations: 6	**M22-SWD-I6-LP01** 115994	
	**Link** Used to link open mounting locations on device plugs or M22-SWD-I PCB		
	Link for unused mounting locations on M22-SWD-I...LP (base mounting)	**M22-SWD-SEL8-10** 116698	5 units
	Connectors for SmartWire-DT round cables		
	8-pin socket, straight	**SWD4-SF8-67** 116033	1 unit
	8-pin plug, flat	**SWD4-SM8-67** 116034	
	Housing bushing sockets For installation in surface mounting enclosure M22-I... 8-pin socket/plug, IP67, for connection to SWD4-S(M,F)-67... 8 prefabricated cables for connection to M22-SWD-I... PCB		
	8-pin socket, M20	**SWD4-SF8-20** 116031	1 unit
	8-pin plug, M20	**SWD4-SM8-20** 116032	1 unit



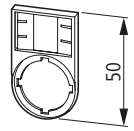
Legend holders, complete

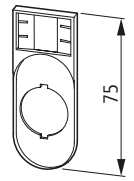
IP66
30 x 50 mm, round, black (RAL 9005)

Inscription	Part no. Article no.	Std. pack	Inscription	Part no. Article no.	Std. pack
- 0 I	**M22S-ST-X88** 216485	10 units	FAULT	**M22S-ST-GB8** 216498	10 units
0 - I	**M22S-ST-X89** 218147		DÉFAUT	**M22S-ST-F67** 256795	
I 0 II	**M22S-ST-X93** 216486		BETRIEB	**M22S-ST-D7** 216488	
1	**M22S-ST-X52** 256797		RUN	**M22S-ST-GB7** 216497	
2	**M22S-ST-X53** 256798		EN SERVICE	**M22S-ST-F7** 256793	
STOP	**M22S-ST-GB0** 216494		HAND AUTO	**M22S-ST-D11** 216492	
START	**M22S-ST-GB1** 216495		MAN. AUTO	**M22S-ST-GB11** 216500	
AUS	**M22S-ST-D5** 218299		AUS EIN	**M22S-ST-D10** 216490	
OFF	**M22S-ST-GB5** 218300		OFF ON	**M22S-ST-GB10** 216499	
ARRÊT	**M22S-ST-F0** 256791		ARRÊT MARCHE	**M22S-ST-F10** 256794	
EIN	**M22S-ST-D6** 216487		HAND 0 AUTO	**M22S-ST-D12** 216493	
ON	**M22S-ST-GB6** 216496		MAN. 0 AUTO	**M22S-ST-GB12** 216501	
MARCHE	**M22S-ST-F1** 256792		SOUS TENSION	**M22S-ST-F68** 256796	
STÖRUNG	**M22S-ST-D8** 216489				

Legend holders without label

IP66
Round, black (RAL 9005)





Inscription	Color	Part no. Article no.	Std. pack	Notes
30 x 50 mm	●	**M22S-ST-X** 216392	25 units	Cannot be used for M22(S)-PV…
30 x 50 mm	●	**M22S-ST-X-GVP** 216393	500 units	
For double actuator pushbuttons 30 x 75 mm	●	**M22S-STDD-X** 216394	10 units	–

Insert labels for label mounts

18 x 27 mm

Inscription	Color	Part no. Article no.	Std. pack	Notes
Aluminum color, no inscription	–	**M22-XST** 216480	100 units	–
Aluminum color, no inscription	–	**M22-XST-GVP** 216481	500 units	–
* = With customized Label Editor inscription → Page 74	–	**M22-XST-*** 216482	1 unit	Letter height of 3 mm: Max. 3 lines, Max. 12 characters per line Letter height of 5 mm: Max. 2 lines, Max. 8 characters per line

Inscription or explanation	For use with	Color, symbol	Style: flush **Part no.** Article no.	Style: extended **Part no.** Article no.	Std. pack
Button plates for pushbuttons					
≦ 5 characters: letter height of 5 mm, > 5 characters: letter height of 3 mm					
–	M22(S)-D-X M22(S)-DR-X M22-DG-X M30C-FD-X M30C-FDR-X	●	**M22-XD-S** 216421	**M22-XDH-S** 216428	10 units
–		○	**M22-XD-W** 216422	**M22-XDH-W** 216429	
–		●	**M22-XD-R** 216423	**M22-XDH-R** 216430	
–		●	**M22-XD-G** 216424	**M22-XDH-G** 216431	
–		●	**M22-XD-Y** 216425	**M22-XDH-Y** 216432	
–		●	**M22-XD-B** 216426	**M22-XDH-B** 216433	
–		●	**M22-XD-GR** 132670		
With customized Label Editor inscription → Notes		–	**M22-XD-*-*** 216427	**M22-XDH-*-*** 216434	
Zu		●	**M22-XD-S-D2** 218184	**M22-XDH-S-D2** 218229	
Auf		●	**M22-XD-S-D3** 218185	**M22-XDH-S-D3** 218230	
Ab		●	**M22-XD-S-D4** 218186	**M22-XDH-S-D4** 218231	
Aus		●	**M22-XD-R-D5** 218187	**M22-XDH-R-D5** 218232	
Ein		●	**M22-XD-S-D6** 218188	**M22-XDH-S-D6** 218233	
Entsperren		●	**M22-XD-B-D14** 218189	**M22-XDH-B-D14** 218234	
Vorwärts		●	**M22-XD-S-D15** 218190	**M22-XDH-S-D15** 218235	
Rückwärts		●	**M22-XD-S-D16** 218191	**M22-XDH-S-D16** 218236	
Heben		●	**M22-XD-S-D17** 218192	**M22-XDH-S-D17** 218237	
Senken		●	**M22-XD-S-D18** 218193	**M22-XDH-S-D18** 218238	
STOP		●	**M22-XD-R-GB0** 218194	**M22-XDH-R-GB0** 218239	
STOP		●	**M22-XD-S-GB0** 218195	**M22-XDH-S-GB0** 218240	
START		●	**M22-XD-G-GB1** 218196	**M22-XDH-G-GB1** 218241	
START		○	**M22-XD-W-GB1** 218197	**M22-XDH-W-GB1** 218242	
CLOSE		●	**M22-XD-S-GB2** 218198	**M22-XDH-S-GB2** 218243	
UP		●	**M22-XD-S-GB3** 218199	**M22-XDH-S-GB3** 218244	
DOWN		●	**M22-XD-S-GB4** 218200	**M22-XDH-S-GB4** 218245	
TEST		●	**M22-XD-S-GB9** 218201	**M22-XDH-S-GB9** 218246	
OFF		●	**M22-XD-R-GB5** 218202	**M22-XDH-R-GB5** 218247	
ON		●	**M22-XD-S-GB6** 218203	**M22-XDH-S-GB6** 218248	

Notes

When ordering, replace the asterisks in part no. M22-XD(H)-*-* as follows:
1. Wildcard ≙ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)
2. Wildcard ≙ Filename assigned by Label Editor → Page 74

Text size of 3 mm:
Max. 8 characters in 1st line,
10 characters in 2nd line, 8 characters in 3rd line

Text size of 5 mm:
Max. 5 characters per line

Inscription or explanation	For use with	Color, symbol	Style: flush **Part no.** Article no.	Style: extended **Part no.** Article no.	Std. pack
Button plates for pushbuttons					
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm					
RESET	M22(S)-D-X M22(S)-DR-X M22-DG-X M30C-FD-X M30C-FDR-X		**M22-XD-B-GB14** 218204	**M22-XDH-B-GB14** 218249	10 units
FORWARD			**M22-XD-S-GB15** 218205	**M22-XDH-S-GB15** 218250	
REVERSE			**M22-XD-S-GB16** 218206	**M22-XDH-S-GB16** 218251	
RAISE			**M22-XD-S-GB17** 218208	**M22-XDH-S-GB17** 218252	
LOWER			**M22-XD-S-GB18** 218209	**M22-XDH-S-GB18** 218253	
Stop			**M22-XD-R-X0** 218153	**M22-XDH-R-X0** 218155	
Stop			**M22-XD-S-X0** 218154	**M22-XDH-S-X0** 218156	
Start			**M22-XD-G-X1** 218165	**M22-XDH-G-X1** 218210	
Start			**M22-XD-S-X1** 218166	**M22-XDH-S-X1** 218211	
Start			**M22-XD-W-X1** 218167	**M22-XDH-W-X1** 218212	
Start			**M22-XD-G-X2** 218168	**M22-XDH-G-X2** 218213	
Start			**M22-XD-S-X2** 218169	**M22-XDH-S-X2** 218214	
Increase			**M22-XD-S-X4** 218170	**M22-XDH-S-X4** 218215	
Decrease			**M22-XD-S-X5** 218171	**M22-XDH-S-X5** 218216	
Reset			**M22-XD-B-X6** 218172	**M22-XDH-B-X6** 218217	
Direction of movement			**M22-XD-S-X7** 218173	**M22-XDH-S-X7** 218218	
Direction of movement			**M22-XD-S-X8** 218174	**M22-XDH-S-X8** 218219	
Manual			**M22-XD-S-X9** 218175	**M22-XDH-S-X9** 218220	
Automatic			**M22-XD-S-X10** 218176	**M22-XDH-S-X10** 218221	
Inch			**M22-XD-S-X11** 218177	**M22-XDH-S-X11** 218222	
Unlock			**M22-XD-S-X12** 218178	**M22-XDH-S-X12** 218223	
Unclamp			**M22-XD-S-X13** 218179	**M22-XDH-S-X13** 218224	
Clamp			**M22-XD-S-X14** 218180	**M22-XDH-S-X14** 218225	
Release			**M22-XD-S-X15** 218181	**M22-XDH-S-X15** 218226	
Liquid			**M22-XD-S-X16** 218182	**M22-XDH-S-X16** 218227	
Klaxon			**M22-XD-S-X17** 218183	**M22-XDH-S-X17** 218228	

1

Inscription or explanation	For use with	Color	Part no. Article no.	Std. pack
Button plates for mushroom pushbuttons				
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
–	M22(S)-D(R)P-...	●	**M22-XDP-S** 216435	10 units
–		○	**M22-XDP-W** 216436	
–		●	**M22-XDP-R** 216437	
–		●	**M22-XDP-G** 216438	
–		●	**M22-XDP-Y** 216439	
With customized Label Editor inscription → Notes		–	**M22-XDP-*-*** 216440	
Zu		●	**M22-XDP-S-D2** 218272	
Auf		●	**M22-XDP-S-D3** 218273	
Ab		●	**M22-XDP-S-D4** 218274	
Aus		●	**M22-XDP-R-D5** 218275	
Ein		●	**M22-XDP-S-D6** 218276	
Vorwärts		●	**M22-XDP-S-D15** 218277	
Rückwärts		●	**M22-XDP-S-D16** 218278	
Heben		●	**M22-XDP-S-D17** 218279	
Senken		●	**M22-XDP-S-D18** 218280	
STOP		●	**M22-XDP-R-GB0** 218281	
STOP		●	**M22-XDP-S-GB0** 218282	
START		●	**M22-XDP-G-GB1** 218283	
START		○	**M22-XDP-W-GB1** 218284	
CLOSE		●	**M22-XDP-S-GB2** 218285	
UP		●	**M22-XDP-S-GB3** 218286	
DOWN		●	**M22-XDP-S-GB4** 218287	
OFF		●	**M22-XDP-R-GB5** 218289	
ON		●	**M22-XDP-S-GB6** 218290	
TEST		●	**M22-XDP-S-GB9** 218288	
FORWARD		●	**M22-XDP-S-GB15** 218291	
REVERSE		●	**M22-XDP-S-GB16** 218292	

Notes

The following information must be added to the part no. when ordering:
1. Wildcard * ≙ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black), -U (grey)
2. Wildcard * ≙ Filename assigned by Label Editor → Page 74

Text size of 3 mm:

Max. 8 characters in first line,
10 characters in second line,
8 characters in third line

Text size of 5 mm:

Max. 5 characters per line

Inscription or explanation	For use with	Color, symbol	**Part no.** Article no.	Std. pack
Button plates for mushroom pushbuttons				
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
RAISE	M22(S)-D(R)P-...		**M22-XDP-S-GB17** 218293	10 units
LOWER			**M22-XDP-S-GB18** 218294	
Stop			**M22-XDP-R-X0** 218157	
Stop			**M22-XDP-S-X0** 218158	
Start			**M22-XDP-G-X1** 218254	
Start			**M22-XDP-S-X1** 218255	
Start			**M22-XDP-W-X1** 218256	
Start			**M22-XDP-G-X2** 218257	
Start			**M22-XDP-S-X2** 218258	
Increase			**M22-XDP-S-X4** 218259	
Decrease			**M22-XDP-S-X5** 218260	
Direction of movement			**M22-XDP-S-X7** 218261	
Direction of movement			**M22-XDP-S-X8** 218262	
Manual			**M22-XDP-S-X9** 218263	
Automatic			**M22-XDP-S-X10** 218264	
Inch			**M22-XDP-S-X11** 218265	
Unlock			**M22-XDP-S-X12** 218266	
Unclamp			**M22-XDP-S-X13** 218267	
Clamp			**M22-XDP-S-X14** 218268	
Release			**M22-XDP-S-X15** 218269	
Liquid			**M22-XDP-S-X16** 218270	
Klaxon			**M22-XDP-S-X17** 218271	

1

Inscription or explanation	For use with	Color	Style: flush **Part no.** Article no.	Std. pack	Style: extended **Part no.** Article no.	Std. pack
Lenses for indicator lights						
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm						
–	M22-L-X M22-LC-X	○	**M22-XL-W** 216453	10 units	**M22-XLH-W** 216459	10 units
–		●	**M22-XL-R** 216454		**M22-XLH-R** 216460	
–		●	**M22-XL-G** 216455		**M22-XLH-G** 216461	
–		●	**M22-XL-Y** 216456		**M22-XLH-Y** 216462	
–		●	**M22-XL-B** 216457		**M22-XLH-B** 216463	
–		●	**M22-XL-A** 118740		**M22-XLH-A** 118741	
With customized Label Editor inscription → Notes		–	**M22-XL-*-*** 216458			
Zu		●	**M22-XL-W-D2** 218403			
Auf		●	**M22-XL-W-D3** 218404			
Ab		●	**M22-XL-W-D4** 218405			
Aus		●	**M22-XL-R-D5** 218406			
Ein		●	**M22-XL-W-D6** 218407			
Vorwärts		●	**M22-XL-W-D15** 218408			
Rückwärts		●	**M22-XL-W-D16** 218409			
Heben		●	**M22-XL-W-D17** 218410			
Senken		●	**M22-XL-W-D18** 218411			
STOP		●	**M22-XL-R-GB0** 218412			
STOP		●	**M22-XL-W-GB0** 218413			
START		●	**M22-XL-G-GB1** 218414			
START		●	**M22-XL-W-GB1** 218415			
CLOSE		●	**M22-XL-W-GB2** 218416			
UP		●	**M22-XL-W-GB3** 218417			
DOWN		●	**M22-XL-W-GB4** 218418			
TEST		●	**M22-XL-W-GB9** 218419			
OFF		●	**M22-XL-R-GB5** 218420			
ON		●	**M22-XL-W-GB6** 218421			
FORWARD		●	**M22-XL-W-GB15** 218422			

Notes

The following information must be added to the part no. when ordering:
1. Wildcard * Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)
2. Wildcard * Filename assigned by Label Editor → Page 74

Text size of 3 mm:

Max. 8 characters in first line,
10 characters in second line,
8 characters in third line

Text size of 5 mm:

Max. 5 characters per line

Inscription or explanation	For use with	Color, symbol	**Part no.** Article no.	Std. pack
Lenses for indicator lights				
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm				
REVERSE	M22-L-X M22-LC-X		**M22-XL-W-GB16** 218423	10 units
RAISE			**M22-XL-W-GB17** 218424	
LOWER			**M22-XL-W-GB18** 218425	
Stop			**M22-XL-R-X0** 218163	
Stop			**M22-XL-W-X0** 218164	
Start			**M22-XL-G-X1** 218384	
Start			**M22-XL-W-X1** 218385	
Start			**M22-XL-G-X2** 218386	
Start			**M22-XL-W-X2** 218387	
Increase			**M22-XL-W-X4** 218388	
Decrease			**M22-XL-W-X5** 218389	
Direction of movement			**M22-XL-W-X7** 218390	
Direction of movement			**M22-XL-W-X8** 218391	
Manual			**M22-XL-W-X9** 218392	
Automatic			**M22-XL-W-X10** 218393	
Inch			**M22-XL-W-X11** 218394	
Unlock			**M22-XL-W-X12** 218395	
Unclamp			**M22-XL-W-X13** 218396	
Clamp			**M22-XL-W-X14** 218399	
Release			**M22-XL-W-X15** 218400	
Liquid			**M22-XL-W-X16** 218401	
Klaxon			**M22-XL-W-X17** 218402	

1

Inscription or explanation	For use with	Color	Style: flush **Part no.** Article no.	Std. pack	Style: extended **Part no.** Article no.	Std. pack
Button lenses for illuminated pushbutton actuators						
≦ 5 characters: letter height of 5 mm > 5 characters: letter height of 3 mm						
–	M22(S)-D-X M22(S)-DR-X M22-DG-X M30C-FDL-X M30C-FDRL-X		**M22-XDL-W** 216441	10 units	**M22-XDLH-W** 216447	10 units
–			**M22-XDL-R** 216442		**M22-XDLH-R** 216448	
–			**M22-XDL-G** 216443		**M22-XDLH-G** 216449	
–			**M22-XDL-Y** 216444		**M22-XDLH-Y** 216450	
–			**M22-XDL-B** 216445		**M22-XDLH-B** 216451	
–			**M22-XDL-A** 167437		**M22-XDLH-A** 167438	
With customized Label Editor inscription → Notes		–	**M22-XDL-*-*** 216446		**M22-XDLH-*-*** 216452	
Zu			**M22-XDL-W-D2** 218316		**M22-XDLH-W-D2** 218359	
Auf			**M22-XDL-W-D3** 218317		**M22-XDLH-W-D3** 218360	
Ab			**M22-XDL-W-D4** 218318		**M22-XDLH-W-D4** 218361	
Aus			**M22-XDL-R-D5** 218319		**M22-XDLH-R-D5** 218362	
Ein			**M22-XDL-W-D6** 218320		**M22-XDLH-W-D6** 218363	
Entsperren			**M22-XDL-B-D14** 218321		**M22-XDLH-B-D14** 218364	
Vorwärts			**M22-XDL-W-D15** 218322		**M22-XDLH-W-D15** 218365	
Rückwärts			**M22-XDL-W-D16** 218323		**M22-XDLH-W-D16** 218366	
Heben			**M22-XDL-W-D17** 218324		**M22-XDLH-W-D17** 218367	
Senken			**M22-XDL-W-D18** 218325		**M22-XDLH-W-D18** 218368	
STOP			**M22-XDL-R-GB0** 218326		**M22-XDLH-R-GB0** 218369	
STOP			**M22-XDL-W-GB0** 218327		**M22-XDLH-W-GB0** 218370	
START			**M22-XDL-G-GB1** 218328		**M22-XDLH-G-GB1** 218371	
START			**M22-XDL-W-GB1** 218329		**M22-XDLH-W-GB1** 218372	
CLOSE			**M22-XDL-W-GB2** 218330		**M22-XDLH-W-GB2** 218373	
UP			**M22-XDL-W-GB3** 218331		**M22-XDLH-W-GB3** 218374	
DOWN			**M22-XDL-W-GB4** 218332		**M22-XDLH-W-GB4** 218375	
TEST			**M22-XDL-W-GB9** 218333		**M22-XDLH-W-GB9** 218376	
OFF			**M22-XDL-R-GB5** 218334		**M22-XDLH-R-GB5** 218377	
ON			**M22-XDL-W-GB6** 218335		**M22-XDLH-W-GB6** 218378	

Notes

The following information must be added to the part no. when ordering:
1. Wildcard * ≙ Color: -R (red), -G (green), -B (blue), -W (white), -Y (yellow)
2. Wildcard * ≙ Filename assigned by Label Editor → Page 74

Text size of 3 mm:

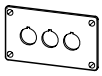
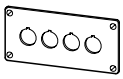
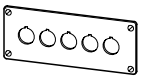
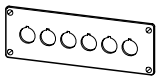
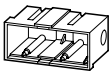
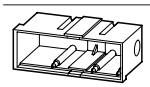
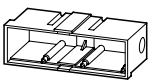
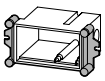
Max. 8 characters in first line,
10 characters in second line,
8 characters in third line

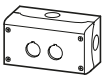
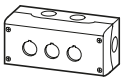
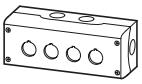
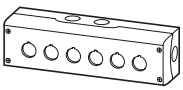
Text size of 5 mm:

Max. 5 characters per line

Inscription or explanation	For use with	Color, symbol	Style: flush **Part no.** Article no.	Std. pack	Style: extended **Part no.** Article no.	Std. pack
Button lenses for illuminated pushbutton actuators						
≦ 5 characters: letter height 5 of mm > 5 characters: letter height of 3 mm						
RESET	M22(S)-D-X M22(S)-DR-X M22-DG-X M30C-FDL-X M30C-FDRL-X		**M22-XDL-B-GB14** 218336	10 units	**M22-XDLH-B-GB14** 218379	10 units
FORWARD			**M22-XDL-W-GB15** 218337		**M22-XDLH-W-GB15** 218380	
REVERSE			**M22-XDL-W-GB16** 218338		**M22-XDLH-W-GB16** 218381	
RAISE			**M22-XDL-W-GB17** 218339		**M22-XDLH-W-GB17** 218382	
LOWER			**M22-XDL-W-GB18** 218340		**M22-XDLH-W-GB18** 218383	
Stop			**M22-XDL-R-X0** 218159		**M22-XDLH-R-X0** 218161	
Stop			**M22-XDL-W-X0** 218160		**M22-XDLH-W-X0** 218162	
Start			**M22-XDL-G-X1** 218295		**M22-XDLH-G-X1** 218341	
Start			**M22-XDL-W-X1** 218296		**M22-XDLH-W-X1** 218342	
Start			**M22-XDL-G-X2** 218297		**M22-XDLH-G-X2** 218343	
Start			**M22-XDL-W-X2** 218301		**M22-XDLH-W-X2** 218344	
Increase			**M22-XDL-W-X4** 218302		**M22-XDLH-W-X4** 218345	
Decrease			**M22-XDL-W-X5** 218303		**M22-XDLH-W-X5** 218346	
Reset			**M22-XDL-B-X6** 218304		**M22-XDLH-B-X6** 218347	
Direction of movement			**M22-XDL-W-X7** 218305		**M22-XDLH-W-X7** 218348	
Direction of movement			**M22-XDL-W-X8** 218306		**M22-XDLH-W-X8** 218349	
Manual			**M22-XDL-W-X9** 218307		**M22-XDLH-W-X9** 218350	
Automatic			**M22-XDL-W-X10** 218308		**M22-XDLH-W-X10** 218351	
Inch			**M22-XDL-W-X11** 218309		**M22-XDLH-W-X11** 218352	
Unlock			**M22-XDL-W-X12** 218310		**M22-XDLH-W-X12** 218353	
Unclamp			**M22-XDL-W-X13** 218311		**M22-XDLH-W-X13** 218354	
Clamp			**M22-XDL-W-X14** 218312		**M22-XDLH-W-X14** 218355	
Release			**M22-XDL-W-X15** 218313		**M22-XDLH-W-X15** 218356	
Liquid			**M22-XDL-W-X16** 218314		**M22-XDLH-W-X16** 218357	
Klaxon			**M22-XDL-W-X17** 218315		**M22-XDLH-W-X17** 218358	

1

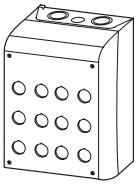
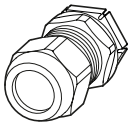
		Degree of protection	Mounting locations Qty.	Color	RAL number	Cable entry knockouts Number of M20 knockouts	**Part no.** Article no.	Std. pack
Flush mounting plates								
No add-on legend plates possible when using a vertical layout Degree of protection only in conjunction with a suitable enclosure and correct mounting.								
Aluminum with yellow paint finish for emergency stop button		IP65	1		RAL 1004	–	**M22-EY1** 216542	5 units
Aluminum Bright dip anodized, including M22-XE...			1		RAL 7035	–	**M22-E1** 216541	
			2			–	**M22-E2** 216543	
			3			–	**M22-E3** 216544	
			4			–	**M22-E4** 216545	1 unit
			5			–	**M22-E5** 216546	
		IP40	6			–	**M22-E6** 216547	
Shrouds								
Light gray plastic Degree of protection only in combination with M22-E… flush mounting plates								
		IP55	1		RAL 7035	3	**M22-H1** 216548	1 unit
			2			4	**M22-H2** 216549	
			3			4	**M22-H3** 216550	
		IP40	4			4	**M22-H4** 216551	
			5			5	**M22-H5** 216552	
			6			6	**M22-H6** 216553	
Set of plaster keys								
Comprising two plaster keys that can be used as mounting aids For shroud plasterboard mounting								
		–	–	–	–	–	**M22-UPE** 216554	1 unit

	Mounting locations	Enclosure material	Cable entries	Degree of protection	Color	RAL number	Color Enclosure base	Part no. Article no.	Std. pack
Surface mounting enclosures									
With stainless steel screws									
	1	Plastic	At bottom: 2 x M16 At top: 1 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	**M22-I1** 216535	1 unit
						RAL 1004	Anthracite	**M22-IY1** 216536	
						RAL 1004	Anthracite	**M22-IY1-XPV60**[1] 167798	
		Stainless steel			–	–	–	**M22-I1M/SS**[2] 118455	
		Metal				RAL 1004	–	**M22-I1MGE-SAL** 118456	
		Metal			–	–		**M22-I1M-SAL** 118457	
	2	Plastic	At bottom: 2 x M20	IP67, IP69K		RAL 7035	Anthracite	**M22-I2** 216537	
		Stainless steel	At top: 1 x M20		–	–	–	**M22-I2M/SS**[2] 118458	
		Metal	On the sides: 2 x M20/M25 (one on each side)		–	–	–	**M22-I2M-SAL** 118459	
	3	Plastic	At bottom: 2 x M20	IP67, IP69K		RAL 7035	Anthracite	**M22-I3** 216538	
		Stainless steel	At top: 2 x M20		–	–		**M22-I3M/SS**[2] 118460	
		Metal	On the sides: 2 x M20/M25 (one on each side)		–	–	–	**M22-I3M-SAL** 118461	
	4	Plastic	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP67, IP69K		RAL 7035	Anthracite	**M22-I4** 216539	
	6	Plastic	At bottom: 2 x M20 At top: 2 x M20 On the sides: 2 x M20/M25 (one on each side)	IP66		RAL 7035	Anthracite	**M22-I6** 216540	

Notes

[1] With additional cable entry in the front for M22-XPV60… illuminated ring

[2] With mounting tabs on the sides

	Mounting locations Qty.	Cable entry knockouts Bottom Number of M… entries	Cable entry knockouts Sides Number of M… entries	Color	RAL number	Degree of protection	Part no. Article no.	Std. pack
Surface mounting enclosure								
Including mounting plate for base mounting Anthracite enclosure base								
	12	2 x 32/25	2 x 20 4 x 32/25		RAL 7035	IP55	**M22-I12** 222688	1 unit
M20 connecting screw								
For connecting any M22-I... surface mounting enclosures Installed through M20 cable entry on the side								
	–	–	–	–	–	IP67	**M22-XI** 229162	25 units
M20 metric cable glands as defined in EN 50262								
With lock nut and integrated strain relief Polyamide, halogen-free External diameter of cable: 6 - 13 mm								
	–	–	–	–	–	IP68, IP69K	**V-M20** 206910	20 units

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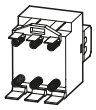
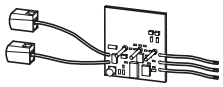
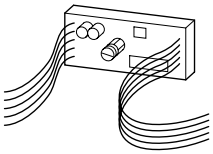
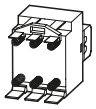
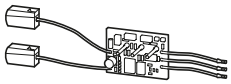
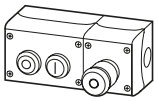
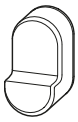
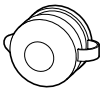
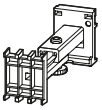
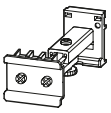
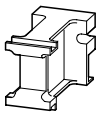
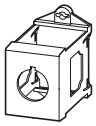
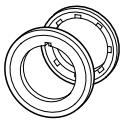
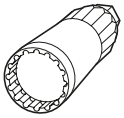
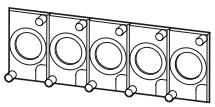
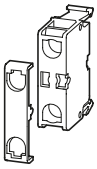
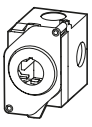
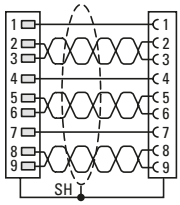
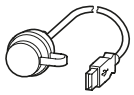
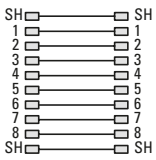
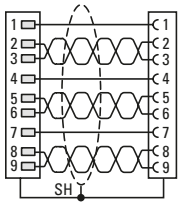
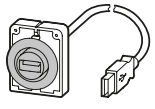
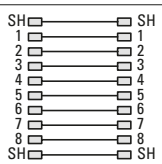
		Description	Part no. Article no.	Std. pack
		AS-Interface connection for RMQ-Titan		
	For front mounting (RMQ-Titan)	AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C), M22-K10 (N/O) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	**M22-ASI** 231269	1 unit
	For base mounting (RMQ-Titan)	Adapter element for RMQ-Titan AS-Interface information: 2 input bits, 1 output bit Inputs for 2 contacts Output for 1 LED element: M22-LED-...	**M22-ASI-C** 231271	1 unit
	For surface mounting enclosures (RMQ-Titan)	External connections: 4 inputs/4 outputs (for RMQ contact and lamp socket elements.) RMQ-Titan surface mounting enclosures: M22-I3, M22-I4, M22-I6	**RMQ-M1C-ASI** 032314	1 unit
		Emergency stop interfaces for AS-Interface for safety monitor		
For front mounting 		AS-Interface slave Adapter element for RMQ-Titan AS-Interface information: 1 dual-channel input, 1 output Module enclosure for snap-fitting on the following contact and LED elements: Inputs for 2 contact elements: M22-K01 (N/C) Output for 1 LED element: M22-LED-... Including AS-Interface connector as insulation piercing terminal	**M22-ASI-S** 231270	1 unit
For base mounting 		AS-Interface slave Adapter element for RMQ-Titan or FAK AS-Interface information: 1 dual-channel input, 1 output for the following RMQ-Titan contact and LED elements: Inputs for 2 contact elements: M22-K01 or M22-K01 (N/C) Output for 1 LED element: M22-LED-...	**M22-ASI-CS** 231272	1 unit
		AS-Interface complete device		
		M22-I2 and M22-I2Y surface mounting enclosures M22-PVL emergency stop button and ON/OFF pushbutton; ON illuminated 1 M22-AS-Interface-CS and 1 M22-AS-Interface-C 1 M12A connector Address for M22-PVL → 0; ON/OFF 1 A	**M22-I1/2-M1-ASI** 107405	1 unit

	For use with	Color	Part no. Article no.	Std. pack
	Gold bezel (24 Carat)			
	Bezel not available individually: Can be ordered only through Eaton sales office as M22-COMBINATION-* (customized complete devices)			
	–	–	**M22-FR-AU** 274150	1 unit
	Blanking plugs			
	Round design, IP67, IP69K For sealing spare mounting locations			
	M22		**M22-B** 216388	50 units
	M22		**M22-B-GVP** 216389	250 units
	M22		**M22S-B** 216390	50 units
	M22		**M22S-B-GVP** 216391	250 units
	M30		**M30C-FB** 187028	1 unit
	Pushbutton diaphragms for IP67, IP69K, silicone			
	Transparent diaphragms for harsh environmental conditions and use in the food industry. Do not use with legend holder M22S-ST, as the degree of protection will not be guaranteed			
	M22(S)-D(R)-… M22(S)-DL-… M22(S)-DRL-… M22(S)-L(C)-…	–	**M22-T-D** 216395	10 units
	M22(S)-DDL…	–	**M22-T-DD** 216396	10 units
	**Protective diaphragm, silicone**			
	Prevents the ingress of dirt and dust into the key opening.			
	M22-WS...	–	**M22-XWS** 231275	5 units
	Telescopic clips			
	For adjusting the depth of rear mounting devices in CI enclosures and cabinets with mounting depths of 115 to 155 mm. Continuously adjustable; screw and snap fitting (IEC/EN 60715 DIN-rail); maximum of 10 M22-TC units permissible per enclosure, of which 5 must have pushbuttons with maintained action, Do not use in conjunction with emergency stop buttons.			
	3 contact/LED elements, base mounting configuration, including centering adapter			
	–	–	**M22-TC** 216398	10 units
	With IEC/EN 60715 DIN-rail, width of 44 mm For mounting EASY, FAZ, PKZ, DIL, etc. weighing ≦ 0.3 kg			
	easy200, easy500, easy700, easy800, MFD-CP8, EC4P Continuously adjustable over scales of 75 - 115 mm	–	**M22-TA** 226161	1 unit

1

	For use with	Part no. Article no.	Std. pack
	**Extension**		
	Telescopic clip for a mounting depth of up to 205 mm	**M22-TCV** 225527	5 units
	**IVS top-hat rail adapter**		
	IEC/EN 60715 DIN-rail for front mounting	**M22-IVS** 216400	1 unit
	Plunger bridge		
	For actuating the middle contact element of the M22-W…3 non-illuminated 3-position selector switch → Page 74	**M22-XW** 216405	10 units
	Guard ring		
	To protect against accidental actuation, IP66 For pushbuttons and selector switches (add-on legend plates cannot be used)	**M22-XGWK** 231274	5 units
	Threaded rings		
	M22 x 1.5 mm		
	6.0 mm thick	**M22-GR** 216401	50 units
	4.8 mm thick	**M22-GR7** 288852	50 units
	6.0 mm thick	**M22-GR-GVP** 216404	500 units
	**30/22.3 mm set of adapter rings**		
	Black, consisting of adapter ring and fixing nut, IP67, IP69K For installing 22.3 mm diameter devices in 30.5 mm diameter holes The degree of protection is determined by the front element	**M22S-R30** 216408	10 units
	**Mounting ring tool**		
	For threaded ring; can be used with cordless screwdriver.	**M22-MS** 216402	5 units
	**Fixing plate**		
	M22-H… on M22-E… flush mounting plate for 5 mounting locations	**M22-XE5** 218945	1 unit
	**Dust cover**		
	For M22-K-… contacts (front mounting)	**M22-XKDP** 100647	50 units
	**Dust cover and mechanical mount**		
	For M22... 5 x M20 knockouts		
	Max. 3 contacts	**M22-ADC** 106523	1 unit
	Max. 4 contacts	**M22-ADC4** 106524	
	Mechanical mount	**M22-XADC** 107918	
	Gasket		
	For add-on legend plates used on uneven surfaces	**M22-XZD** 134826	50 units

	Version	Lifespan at t_a = +25 °C $t_{average}$ (AC) h	Color	Part no. Article no.	Std. pack
	BA 9s incandescent lamps for compact indicator lights				
	High-quality versions from select manufacturers				
	110 - 130 V/2.4 W	2000	–	**A22-GL130** 261361	100 units
	24 V/2.0 W	5000	–	**A22-GL24** 261360	100 units
	BA 9s single-chip LEDs for compact indicator lights				
	For AC and DC (positive pole connected to X1), protected against polarity reversal, integral suppressor circuit up to 1500 V				
	12 - 30 V AC/DC/15 mA	100000	○	**A22-LED-W** 261362	10 units
	12 - 30 V AC/DC/15 mA	100000	●	**A22-LED-R** 261364	
	12 - 30 V AC/DC/15 mA	100000	●	**A22-LED-G** 261363	
	12 - 30 V AC/DC/15 mA	100000	●	**A22-LED-Y** 261365	

		Cable length m	Terminal diagram / Contact assignment	Silver bezel Part no. Article no.	Black bezel Part no. Article no.	Std. pack
	M22 USB and RJ45 panel mount connectors					
	Front mounting IP65 (with closed cover), IP20 (with plug connected)					
	USB 3.0 socket, Type A	–		**M22-USB** 147539	**M22S-USB** 147541	1 unit
	Prefabricated cable with permanently connected USB 3.0 Type A plug	0.6		**M22-USB-SA** 107412	**M22S-USB-SA** 147535	1 unit
		1.5		**M22-USB-SA-150** 147543	**M22S-USB-SA-150** 147545	
	RJ45 socket, 8/8, Cat 5e	–		**M22-RJ45-SA** 107413	**M22S-RJ45-SA** 147537	1 unit
	M30C USB and RJ45 panel mount connectors (Flat Front)					
	Front mounting IP20 (with plug connected)			Metal bezel		
	With permanently connected USB 3.0 Type A plug	–		**M30C-FUSB** 187082		1 unit
	Prefabricated cable with permanently connected USB 3.0 e A plug	0.3		**M30C-FUSB-30** 187083		1 unit
		0.6		**M30C-FUSB-60** 187084		
		1.5		**M30C-FUSB-150** 187085		
	RJ45 socket, 8/8, Cat 5e	–		**M30C-FRJ45** 187086		1 unit

Pushbuttons

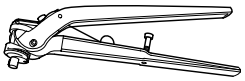
For enclosed overload relays
Mounting hole diameter: 22.3 mm

For use with	Color	Part no. Article no.	Std. pack	Notes
ZW7... ZB12 ZB32 ZB65 ZB150	●	**M22-DZ-B** 254833	10 units	Blue button plate
	●	**M22-DZ-B-GB14** 254834		Blue button plate Inscription: RESET
	–	**M22-DZ-X** 254835		Without button plate, add button plate

Bulb extractor

For M22-LC(H)… compact indicator light

A22-GL… A22-LED…	–	**M22-LG** 216403	5 units	–



Notching tool

Punching tool used to produce the cutout for the anti-rotation tab as defined in IEC/EN 60947-5-1
St 37 sheet steel: max. 3 mm thickness
Stainless steel: max. 1.5 mm thickness

	–	**BA/C-NZ-22** 028144	1 unit	

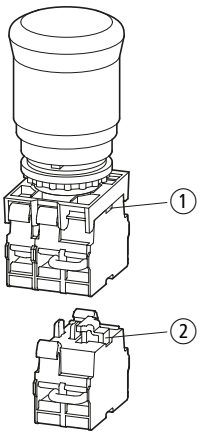
Customized complete devices

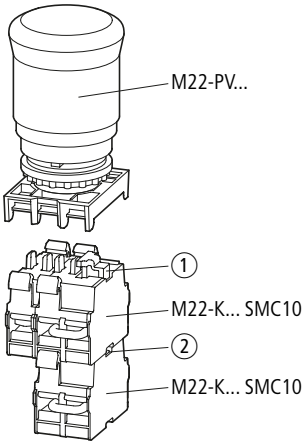
To order, use form FO315 → Data sheet in online catalog

–	–	**M22-COMBINATION** 2010741	1 unit	–

Engineering

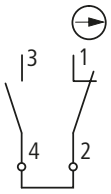
M22...SMC10



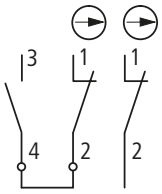


① The self-monitoring contact mechanically monitors the connection on the M22-PV…
② The self-monitoring contact mechanically monitors the connection on the M22-K…SMC10 safety contact above it; but not the connection on the M22-PV…

M22-K01SMC10
M22-KC01SMC10



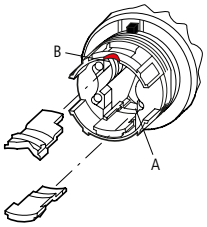
M22-K02SMC10
M22-KC02SMC10



When the self-monitoring contact is mounted correctly, the N/O contact is closed.
The emergency stop/controlled stop circuit will be activated by means of an N/C and N/O connected in series if:
- The emergency stop/controlled stop button is pressed OR
- The self-monitoring contact is mechanically separated from the pushbutton

1

Changing between maintained/momentary action and changing the key withdraw on selector switches with 3 positions



	I	O	II
	A		B
60° ⇓ 60°	– ✔	✔	– ✔
50° ⇓ 50°	✔ ×	✔	✔ ×
60° ⇓ 50°	– ✔	✔	✔ ×
50° ⇓ 60°	✔ ×	✔	– ✔
40° ⇕ 40°	✔ ×	✔	✔ ×
60° ⇓ 40°	– ✔	✔	✔ ×
50° ⇓ 40°	✔ ×	✔	✔ ×
40° ⇕ 60°	✔ ×	✔	– ✔
40° ⇕ 50°	✔ ×	✔	✔ ×

✓ = Key is withdrawable
x = Key is not withdrawable

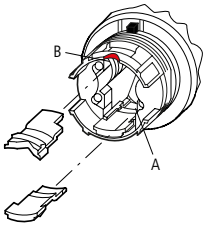
Configuration adapters

2x M22-XC-Y → Page 30

1x M22-XC-R → Page 30

1x

Changing between maintained/momentary action and changing the key withdraw on selector switches with 2 positions



	O	I
		B
60°	✔	– ✔
50°	✔	✔ ×
40°	✔	✔ ×

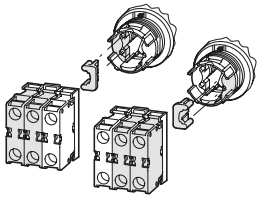
✓ = Key is withdrawable
x = Key is not withdrawable

Configuration adapters

2x M22-XC-Y → Page 30

1x M22-XC-R → Page 30

Plunger bridge for the middle contact on M22(S)-W…3-… 3-position selector switches



Customized inscription for devices using the Label Editor function in the Pushbutton Configurator

To add a custom inscription to your device, simply follow the four steps below:

- Open the Pushbutton Configurator by visiting: www.eaton.eu/config/rmq
- Create your label template (the software features menus to guide you through the process)
- Send the label template to the factory by e-mail. The program will automatically set the e-mail address based on the selected product. When you send your template, the Pushbutton Configurator will automatically assign it a filename such as "RMQ_Titan_12345.zip". This filename is part of the article no. that needs to be used when ordering (see ordering examples)
- Send the order to the Eaton sales office or the appropriate electrical wholesale distributor

Ordering examples:

- M22-XST insert label for M22S-ST-X label mount with custom inscription
  Basic part no.: M22-XST-*
  * = Filename assigned by Label Editor
  Please order: 1 x M22-XST-RMQ_Titan_xxxxxx.zip

- Green button plate with custom inscription
  Basic part no.: M22-XDH-*
  1st * = Color (“G” for "green" in this case); 2nd * = Filename assigned by Label Editor
  Please order: 1 x M22-XDH-G-RMQ_Titan_xxxxx.zip

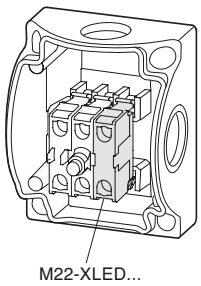
- Double actuator pushbutton with white button plates and custom symbols
  Basic part no.: M22-DDL-*-*-*
  1st * = Color (“W” for "white" in this case); 2nd and 3rd * = Filename assigned by Label Editor; must be entered twice
  Please order: 1 x M22-DDL-W-RMQ_Titan_xxxxx.zip-RMQ_Titan_xxxxx.zip

- Key-operated button, 2 positions, individual lock mechanism number MS1, custom symbol
  Basic part no.: M22-WRS*-MS*-*
  WRS*: * = Number of positions
  MS*: * = Individual lock mechanism number
  -*: * = Filename assigned by Label Editor
  Please order: 1 x M22-WRS2-MS1-RMQ_Titan_xxxxxx.zip

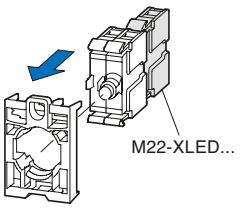
LED series resistor elements

M22-XLED

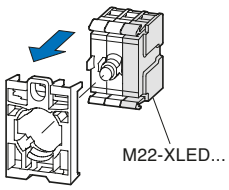
Surface mounting enclosure



Flush mounting at the rear

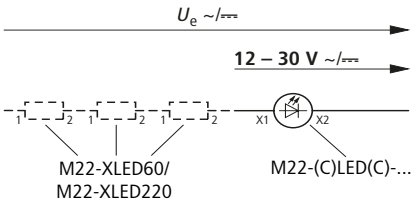


Flush mounting at the side



LED resistor element

M22-XLED60/M22-XLED220

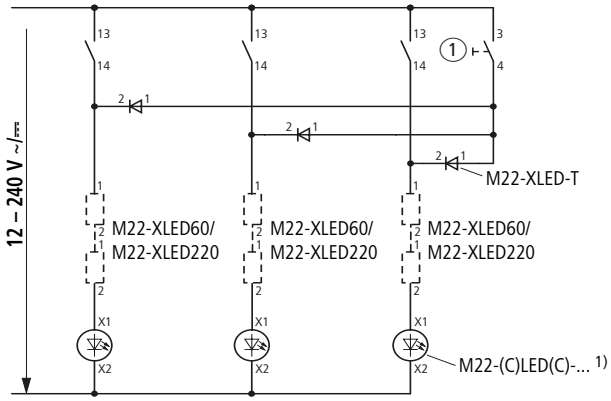


M22-XLED60	1 x	2 x	3 x	4 x	5 x	6 x	7 x
U_e [AC/DC] ≦	60 V	90 V	120 V	150 V	180 V	210 V	240 V

M22-XLED220	1 x
U_e [AC/DC] ≦	220 V

LED test element

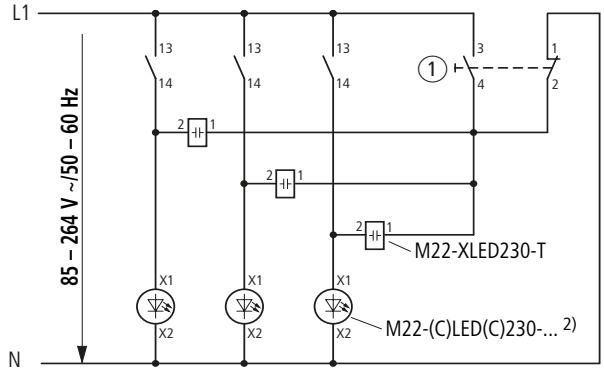
M22-XLED-T

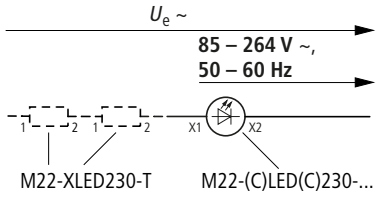


① Test button

1) Only for 12 - 30 V elements

M22-XLED230-T

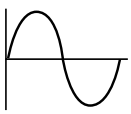


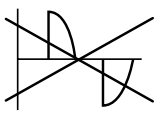


M22-XLED230-T	1 ×	2 ×
U_e ≦	400 V~	500 V~

① Test button

2) Only for 85 - 264 V elements





1

Technical data

				Contact elements		Double contact elements	LED elements	
				M22-(C)K…	M22-FK…	M22-CK20/02/11	M22(C)-LED…	M22-FLED…
General								
Standards				IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1	
Lifespan, mechanical		Operations	x 10^6	5	1	–	–	–
Operating frequency		Operations/h		≦ 3600	≦ 3600	≦ 3600	–	–
Operating force			N	5	4.5	10	–	–
Operating torque (screw terminals)			Nm	0.8	–	–	0.8	–
Degree of protection (IEC/EN 60529)				IP20	IP20	IP20	IP20	IP20
Climatic proofing				Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30				
Ambient air temperature, open			°C	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Mounting position				Any	Any		Any	Any
Mechanical shock resistance as defined in IEC 60068-2-27 Shock duration: 11 ms, half sine shock			g	30	50	30	30	50
Terminal capacities								
Solid			mm^2	0.75 - 2.5	2 x 1 (0.2 - 1.5) 2 x 1 (0.75 - 1.5)[1]	0.5 - 1.5	0.75 - 2.5	1 x 1 (0.2 - 1.5) 1 x 1 (0.75 -1.5)[1]
Stranded			mm^2	0.5 - 2.5	–	0.5 - 1.5	0.5 - 2.5	1 x 1 (0.2 - 1.5)
Flexible with ferrule			mm^2	0.5 - 1.5	2 x 1 (0.25 - 1)[2]	0.5 - 1.5	–	1 x 1 (0.25 - 1)[2]
Contacts								
Rated impulse withstand voltage		U_{imp}	V AC	6000	4000		6000	4000
Rated insulation voltage		U_i	V	500	250		500	250
Overvoltage category/degree of pollution				III/3	III/3		III/3	III/3
Control circuit reliability								
At 24 V DC/5 mA		H_F	Failure rate	< 10^{-7} (i.e., one failure every 10^7 operations)	–	–	–	–
At 5 V DC/1 mA		H_F	Failure rate	< 5 x 10^{-6} (i.e., one failure every 5 x 10^6 operations)	–	–	–	–
Max. short-circuit protective device								
Fuseless			Part no.	PKZM0–10/FAZ-B6/1	FAZ-B4	–	–	–
Fuse		gG/gL	A	10	4	–	–	–
Switching capacity								
Rated operational current								
AC-15	24 V	I_e	A	–	4	–	–	–
	60 V	I_e	A	–	4	–	–	–
	100 V	I_e	A	–	2	–	–	–
	115 V	I_e	A	6	–	–	–	–
	230 V	I_e	A	6	1.5	–	–	–
	400 V	I_e	A	4	–	–	–	–
	500 V	I_e	A	2	–	–	–	–
DC-13	24 V	I_e	A	3	1.5	–	–	–
	42 V	I_e	A	1.7	–	–	–	–
	60 V	I_e	A	1.2	0.8	–	–	–
	110 V	I_e	A	0.6 (M22-CK...: 0.8)	0.4	–	–	–
	220 V	Ie	A	0.3	0.2	–	–	–
Lifespan, electrical								
AC-15	230 V/0.5 A	Operations	x 10^6	1.6	–	–	–	–
	230 V/1.0 A	Operations	x 10^6	1	–	–	–	–
	230 V/3.0 A	Operations	x 10^6	0.7	–	–	–	–
DC-13	12 V/2.8 A	Operations	x 10^6	1.2	–	–	–	–

Notes
[1] Can be plugged without tools
[2] Use WAGO Variocrimp 4 crimping tool; please enquire for others

(Illuminated) pushbuttons, mushroom pushbuttons		Double actuator pushbuttons	(Illuminated) selector switches	Joysticks	Key-operated buttons	Indicator lights Acoustic devices Potentiometers	Controlled stop/ emergency stop
Momentary	Maintained						
IEC/EN 60947-5-1		IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-1	IEC/EN 60947-5-5
5	1	0.2	0.1	0.1	0.1	–	0.1
≦ 3600	≦ 1800	≦ 3600	≦ 2000	≦ 2000	≦ 100	–	≦ 600
5	5	5	–	5	–	–	50
–	–	–	0.3	–	0.5	–	–
IP67, IP69K	IP67, IP69K	IP66	IP66	IP66	IP66	Indicator lights: IP67 Acoustic devices: IP40 Potentiometers: IP66	IP67, IP69K
Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30							
-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Any	Any	Any	Any	Any	Any	Any	Any
M22: 30 M30: 15	M22: 30 M30: 15	30	M22: 30 M30: 15	M22: 30 M30: 15	M22: 30 M30: 15	M22: 30 M30: –	50
–	–	–	–	–	–	0.5 - 1.5	–
–	–	–	–	–	–	0.5 - 1.5	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	4000	–
–	–	–	–	–	–	250	–
–	–	–	–	–	–	III/3	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–
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–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–

		AS-Interface connection for RMQ-Titan	Adapter element for RMQ-Titan	
		RMQ-M1C-ASI	M22-ASI	M22-ASI-C
General				
Standards		EN 50081-1 EN 50082-1	IEC/EN 60947, DIN EN 50 295	IEC/EN 60947, DIN EN 50 295
Radio interference suppression		EN 55011, EN 55022	EN 55011, EN 55022	EN 55011, EN 55022
Limit value class		A	–	–
Degree of protection		IP20	IP20	IP00
Climatic proofing		Damp heat, constant as defined in IEC 60068-2-78;Damp heat, cyclic as defined in IEC 60068-2-30		
Ambient temperature, open	°C	+25 - +55	+25 - +55	+25 - +55
Mechanical shock resistance for a shock duration of 11 ms	g	> 30	> 30	> 30
Vibrations as per IEC 60068-2-27 (amplitude: 1 mm)	Hz	10 - 55	–	–
Dimensions (W x H x D)	mm	92 x 46 x 30	–	–
Weight	kg	0.1	–	–
Mounting		RMQ-Titan front mounting	RMQ-Titan front mounting	RMQ-Titan base mounting
Mounting position		Any	Any	Any
Power supply				
Rated operating voltage as per AS-Interface specifications	V DC	26.5 - 31.6	26.5 - 31.6	26.5 - 31.6
Terminal type		–	Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply		Completely from the AS-Interface cable	Completely from the AS-Interface cable	Completely from the AS-Interface cable
Address setting		Via AS-Interface cable connection	Via AS-Interface cable connection	Via AS-Interface cable connection
Total AS-Interface current draw	mA	–	≦ 40	≦ 40
AS-Interface		Protected against polarity reversal	Protected against polarity reversal	Protected against polarity reversal
Rated operational current at full load	mA	120	–	–
Rated operational current when idle (no I, O set)	mA	Normally 30	–	–
LED status indicators		AS-Interface voltage: green LED	AS-Interface POWER line: green LED on element rear AS-Interface ERROR, AS-Interface master failure: red LED on element rear	AS-Interface POWER line: green LED on PCB AS-Interface ERROR, AS-Interface master failure: red LED on PCB
Inputs				
Inputs; short-circuit proof	Qty.	4 (1 internal + 3 external)	2 (normally 22 V/5 mA)	2 (normally 22 V/5 mA)
Voltage range	V DC	24 - 30	–	–
Operating current per input	mA	Normally 3.5	–	–
Switching level, HIGH signal	V	≧ 15	–	–
LOW signal	mA	–	–	–
Length of connecting cables	cm	≦ 200	–	–
Outputs				
Outputs, short-circuit proof	Qty.	4 (1 internal + 3 external)	1 (normally 19 V/8 mA)	1 (normally 19 V/8 mA)
Voltage range	V DC	24 V DC (+10/-15%)	–	–
Max. current carrying capacity				
All outputs		–	–	–
Sum 3 external outputs		60	–	–
Length of connecting cables	cm	≦ 200	–	–
Profile		S-7.0	S-3.A.E	S-3.A.E
Specification		2.0	2.1	2.1
Addresses	Qty.	31	62	62

		M22-ASI-S	M22-ASI-CS
Emergency stop connections			
AS-Interface cable connection		Yellow plug-in terminal as insulation piercing terminal	2 cables on PCB
Power supply		Completely from the AS-Interface, cable, 26.5 - 31.6 V DC	Completely from the AS-Interface, cable, 26.5 - 31.6 V DC
Mounting		RMQ-Titan front mounting	RMQ-Titan base mounting
Address setting		Via AS-Interface cable	Via AS-Interface cable
Max. total current	mA	45	45
Ambient air temperature	°C	-25 - +55	-25 - +55
Mechanical shock resistance		30 g/11 ms as defined in IEC 60068-2-27	30 g/11 ms as defined in IEC 60068-2-27
Degree of protection		IP20	IP00
Climatic proofing		Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30	Damp heat, constant as defined in IEC 60068-2-78 Damp heat, cyclic as defined in IEC 60068-2-30
Mounting position		Any	Any
Standards		EN 50178 EN 50295	EN 50178 EN 50295
Inputs		Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)	Dual-channel input (22 V/5 mA) (modulated with code sequence) (2 RMQ-Titan M22-K01 N/C contact elements)
Outputs		1 output, normally 19 V/8 mA, short-circuit proof	1 output, normally 19 V/8 mA, short-circuit proof
Status indicators			
AS-Interface POWER cable		Green LED on rear	Green LED on rear
AS-Interface ERROR, AS-Interface master failure		Red LED on rear	Red LED on rear
Profile		S-7.B.E	S-7.B.E

UL File No. 29184	Pilot duty	General use	Wire gauges
Rating data for UL/CSA-listed models			
RMQ16 contact elements			
E 10	C 300, Q 300		Cu cable Min. AWG 18, Max. AWG 14
E01	C 300, R 300		
RMQ-Titan contact elements			
M22-K... M22-CK...	A 600, Q 300, > 300 V AC same polarity	10 A - 600 V AC 1 A - 250 V DC	2 x 14 … 18 AWG 2 x 12 … 22 AWG
RMQ-Titan LED elements			
M22-LED... M22-CLED...			2 x 14 … 18 AWG 2 x 12 … 22 AWG
M22-LC(H) M22-AMC			2 x 16 … 20 AWG 2 x 16 … 20 AWG

		UL 508 requirements	NEMA recommendation
		UL 4X	NEMA 13
RMQ-Titan degrees of protection			
All front elements	M22(S)-...	✓	✓
Add-on legend plates	M22S-ST...	✓	✓
Emergency stop legend plates	M22-XAK... M22-XZK... M22-XBK... M22-XYK...	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
Foot and palm switches	FAK-...	✓	✓

			M22-SWD-K11	M22-SWD-KC11	M22-SWD-LED-…
General					
Standards			IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)		mm	12 x 42 x 39	12 x 45 x 37	10 x 42 x 45
Weight		g	10	10	10
Mounting position			Any		
Ambient mechanical conditions					
Degree of protection (IEC/EN 60529)			IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)					
Constant amplitude of 3.5 mm		Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g		Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27), half sine shock: 15 g/11 ms		Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	50	50
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3	0.3	0.3
Electromagnetic compatibility (EMC)					
Overvoltage category			Not applicable		
Pollution degree			2	2	2
Electrostatic discharge (IEC/EN 61131-2:2008)					
Air discharge (level 3)		kV	8	8	8
Contact discharge (level 2)		kV	4	4	4
Electromagnetic fields (IEC/EN 61131-2:2008)					
80 - 1000 MHz		V/m	10	10	10
1.4 - 2 GHz		V/m	3	3	3
2 - 2.7 GHz		V/m	1	1	1
Radio interference suppression (SmartWire-DT)			EN 55011 Class A		
Burst (IEC/EN 61131-2:2008, level 3)					
Supply cables		kV	2	2	2
SmartWire-DT cables		kV	1	1	1
Radiated RFI (IEC/EN 61131-2:2008, level 3)		V	10	10	10
Ambient climatic conditions					
Operating ambient temperature (IEC 60068-2)		°C	-30 - +55	-30 - +55	-30 - +55
Condensation			Must be prevented with suitable measures		
Storage		°C	-40 - 80	-40 - 80	-40 - 80
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	9 - 95	9 - 95	9 - 95
SmartWire-DT network					
Module type			SmartWire-DT module (slave)		
Baud rate setting			Automatic		
SmartWire-DT status LED			Green		
Connections			Pin header, 8-pin		
Plug connector			SWD4-8SF2-5	M22-SWD-I…LP	SWD4-8SF2-5
Number of insertion cycles			50	50	50
Function element					
Contacts			1 changeover contact	1 changeover contact	–
Lifespan, mechanical/electrical	Operations		1×10^6	1×10^6	–
LED indicator			No	No	Yes
Diagnostics			Yes	Yes	No
Mounting			Front mounting	Base mounting	Front mounting

M22-SWD-LEDC-…	M22-SWD-K11LED-…	M22-SWD-K11LEDC-…	M22-SWD-K22	M22-SWD-KC22	M22-SWD-K22LED-…	M22-SWD-K22LEDC-…
IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178	IEC/EN 61131-2 EN 50178
10 x 45 x 42	12 x 42 x 45	12 x 45 x 42	17 x 42 x 39	17 x 45 x 37	17 x 42 x 45	17 x 45 x 42
10	10	10	14	14	14	14
Any						
IP20	IP20	IP20	IP20	IP20	IP20	IP20
5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4	5 - 8.4
8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150	8.4 - 150
9	9	9	9	9	9	9
50	50	50	50	50	50	50
0.3	0.3	0.3	0.3	0.3	0.3	0.3
Not applicable						
2	2	2	2	2	2	2
8	8	8	8	8	8	8
4	4	4	4	4	4	4
10	10	10	10	10	10	10
3	3	3	3	3	3	3
1	1	1	1	1	1	1
EN 55011 Class A						
2	2	2	2	2	2	2
1	1	1	1	1	1	1
10	10	10	10	10	10	10
-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55	-30 - +55
Must be prevented with suitable measures						
-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80	-40 - 80
9 - 95	9 - 95	9 - 95	5 - 95	5 - 95	5 - 95	5 - 95
SmartWire-DT module (slave)						
Automatic						
Green						
Pin header, 8-pin						
M22-SWD-I…LP	SWD4-8SF2-5	M22-SWD-I…LP	SWD4-8SF2-5	M22-SWD-I…LP	SWD4-8SF2-5	M22-SWD-I…LP
50	50	50	50	50	50	50
–	1 changeover contact	1 changeover contact	2 changeover contacts	2 changeover contacts	2 changeover contacts	2 changeover contacts
–	1 x 10^6	1 x 10^6	1 x 10^6	1 x 10^6	1 x 10^6	1 x 10^6
Yes	Yes	Yes	No	No	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes	Yes
Base mounting	Front mounting	Base mounting	Front mounting	Base mounting	Front mounting	Base mounting

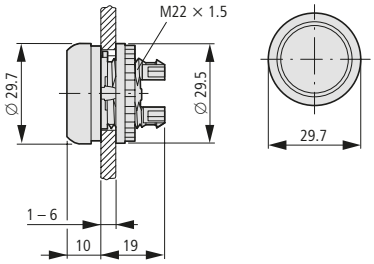
			SWD4-RC8-10	SWD4-8SF2-5	SWD4-8SFF2-5
General					
Standards			IEC/EN 61131-2 EN 50178		
Dimensions (W x H x D)		mm	48.5 x 34.5 x 10	15 x 36.5 x 17.5	48.5 x 34.5 x 10
Weight		g	10	5.5	4.5
Mounting position			Any	Any	Any
Ambient mechanical conditions					
Degree of protection (IEC/EN 60529)			IP20	IP20	IP20
Vibrations (IEC/EN 61131-2:2008)					
Constant amplitude of 3.5 mm		Hz	5 - 8.4	5 - 8.4	5 - 8.4
Constant acceleration of 1 g		Hz	8.4 - 150	8.4 - 150	8.4 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) half sine shock: 15 g/11 ms		Shocks	9	9	9
Drop (IEC/EN 60068-2-31)	Drop height	mm	50	–	–
Free fall, packaged (IEC/EN 60068-2-32)		m	0.3	–	–
Electromagnetic compatibility (EMC)					
Overvoltage category			II	–	–
Pollution degree			2	–	–
Electrostatic discharge (IEC/EN 61131-2:2008)					
Air discharge (level 3)		kV	8	–	8
Contact discharge (level 2)		kV	4	–	4
Electromagnetic fields (IEC/EN 61131-2:2008)					
80 - 1000 MHz		V/m	10	–	–
1.4 - 2 GHz		V/m	3	–	–
2 - 2.7 GHz		V/m	1	–	–
Radio interference suppression (SmartWire-DT)			EN 55011 Class A	–	–
Burst (IEC/EN 61131-2:2008, level 3)					
SmartWire-DT cables		kV	1	–	–
Radiated RFI (IEC/EN 61131-2:2008, level 3)		V	10	–	–
Ambient climatic conditions					
Operating ambient temperature (IEC 60068-2)		°C	-25 - +55	-25 - +55	-25 - +55
Condensation			Must be prevented with suitable measures		
Storage		°C	-40 - 70	-40 - 70	-40 - 70
Relative humidity, non-condensing (IEC/EN 60068-2-30)		%	5 - 95	5 - 95	5 - 95
Connection options					
SWD In			Pin header, 8-pin	Male connector	Pin header, 8-pin
Number of insertion cycles			≥ 200	1	≥ 200
SWD Out			–	Socket, 8-pin	Pin header, 8-pin
Number of insertion cycles			–	≥ 200	≥ 200

SWD4-SF8-20	SWD4-SM8-20	SWD4-8FRF-10	SWD4-SFL8-20	SWD4-SML8-20
IEC/EN 61131-2 EN 50178				
24 x 26 x 162	24 x 26 x 170	35 x 90 x 35	35 x 83 x 40	35 x 83 x 46
20	22.5	42	50	50
Any	Any	Any	Any	Any
IP67	IP67	IP20	IP67	IP67
		5 - 8.4	5 - 8.4	5 - 8.4
		8.4 - 150	8.4 - 150	8.4 - 150
–	–	9	9	9
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	8	8	8
–	–	4	4	4
–	–	–	10	10
–	–	–	3	3
–	–	–	1	1
–	–	–	–	–
–	–	–	–	–
–	–	–	10	10
-25 - +55	-25 - +55	-25 - +55	-25 - +55	-25 - +55
Must be prevented with suitable measures				
-40 - 70	-40 - 70	-40 - 70	-40 - 70	-40 - 70
5 - 95	5 - 95	5 - 95	5 - 95	5 - 95
–	Plug, 8-pin	Pin header, 8-pin	Pin header, 8-pin	Plug, 8-pin
–	≥ 500	≥ 200	≥ 200	≥ 500
Socket, 8-pin	–	Push-in terminals	Socket, 8-pin	Pin header, 8-pin
≥ 500	–	–	≥ 500	≥ 200

1

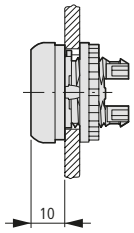
Dimensions

Pilot device elements

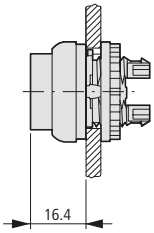


RMQ-Titan pushbuttons

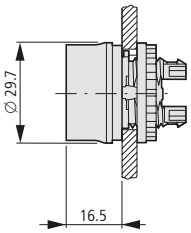
M22...-D-...



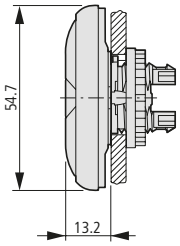
M22...-DH...



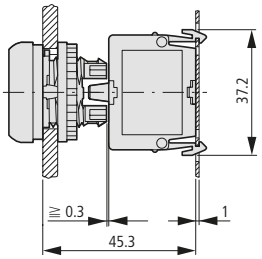
M22-DG(L)...



M22...-DD...

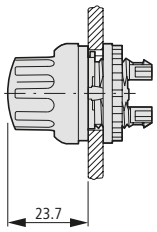


M22-D pushbuttons with base mounting

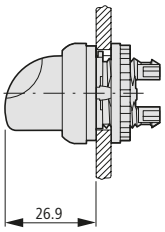


RMQ-Titan selector switches

M22-W...



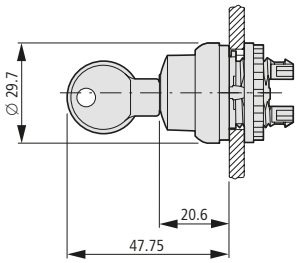
M22...-W(K)L...



RMQ-Titan key-operated buttons

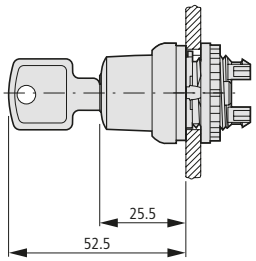
Individual lock mechanism

M22...-W(R)S...



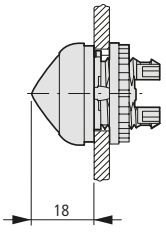
Master key systems

M22...-W...S-SA...

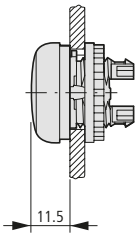


RMQ-Titan indicator lights

M22-LH-...

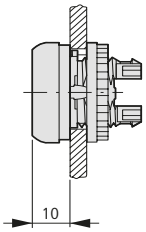


M22-L...

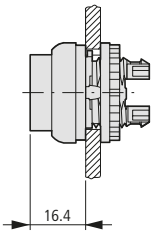


RMQ-Titan illuminated pushbutton actuators

M22...-DL-...

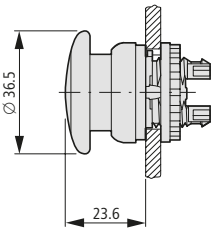


M22...-DLH...



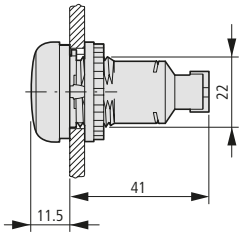
RMQ-Titan mushroom pushbuttons

M22...-DP-...

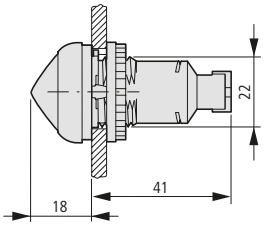


Compact indicator lights
Compact acoustic devices

M22-LC-...
M22-AM...

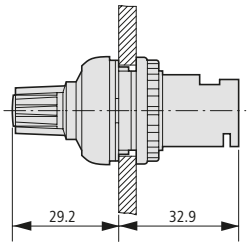


M22-LCH-...



Potentiometers

M22...-R...K



Controlled stop/emergency stop buttons

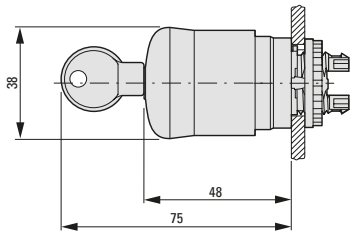
Mushroom-shaped

M22-PV...

M22S-PV...

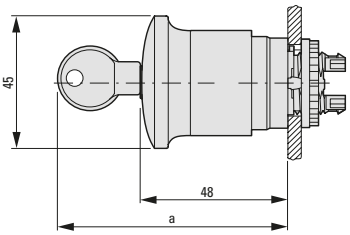
M22-PVL...

M22-PVS...

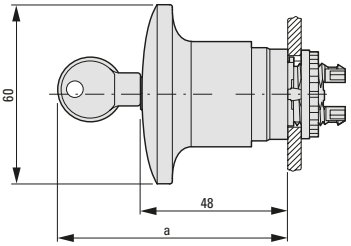


Palm shaped

M22-PV...45...



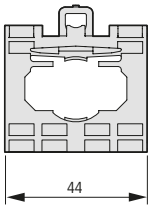
M22-PV...60...

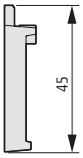


Front mounting (style: flush mounting)

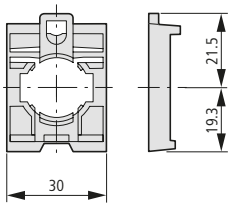
Mounting adapters

M22-A4



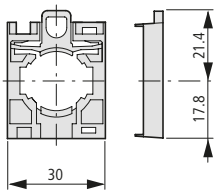


M22-A

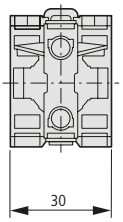


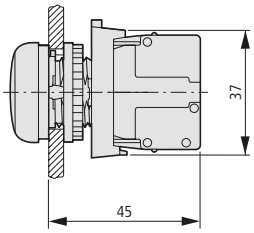
Centering adapter

M22-ZA



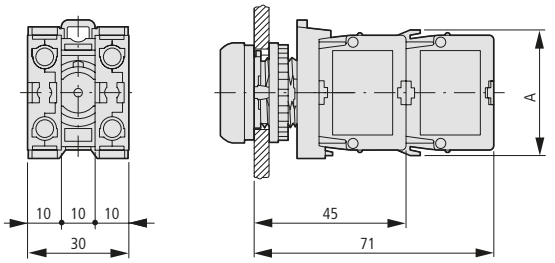
RMQ-Titan indicator lights





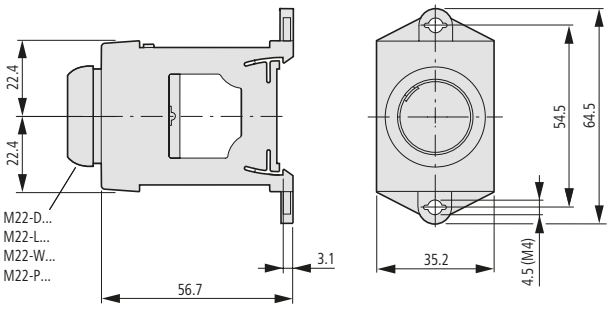
Buttons with M22-(C)K...

Buttons with M22-(C) LED... + M22-XLED...

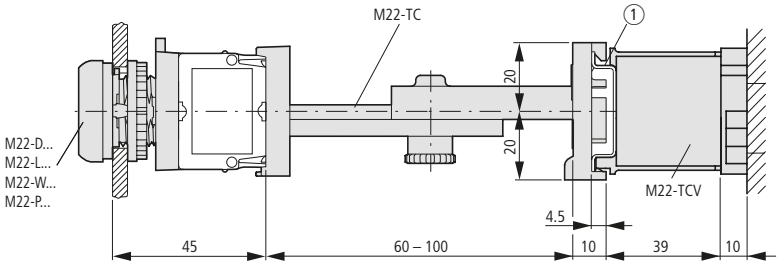


	1 x M22-K...	2 x M22-K...	1 x M22-CK...	2 x M22-CK...
A	37.2	37.2	39	39

IVS top-hat rail adapter



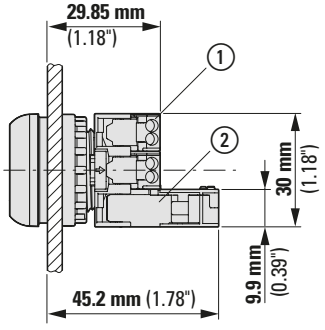
Pushbuttons, indicator lights with M22-TC telescopic clip and M22-TCV extension



① IEC/EN 60715 DIN-rail

Pushbuttons with Flat Rear contact element ①

Pushbuttons with standard contact element ②



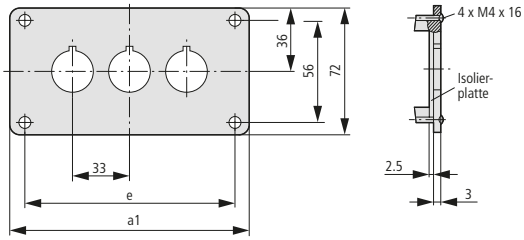
① M22-FK10(01)
② M22-(C)K...

1

Front mounting (style: flush mounting)

RMQ-Titan mounting plates

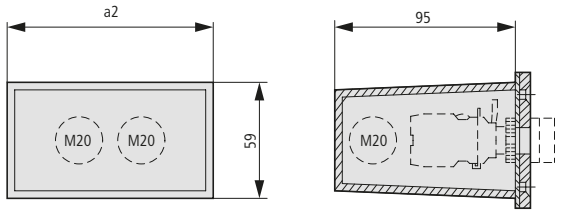
M22-E...



Part no.	a1	e
M22-E(Y)1	72	56
M22-E2	105	89
M22-E3	138	122
M22-E4	171	155
M22-E5	204	188
M22-E6	237	221

Shrouds

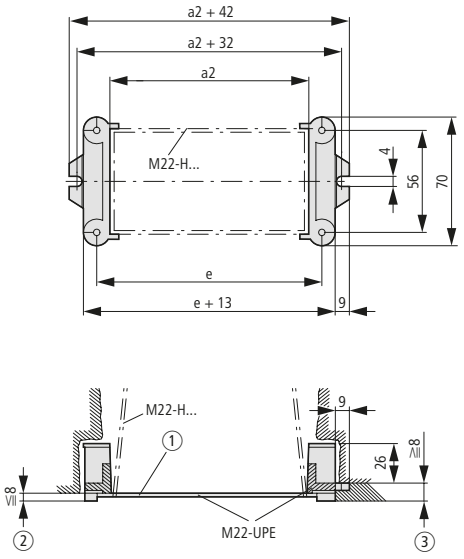
M22-H...



Part no.	a2	Cable entry	Design
M22-H1	42	3 x M20	One-piece
M22-H2	75	4 x M20	
M22-H3	108	4 x M20	
M22-H4	141	4 x M20	Split
M22-H5	174	5 x M20	
M22-HE6	207	6 x M20	

Shroud with plaster keys

M22-UPE

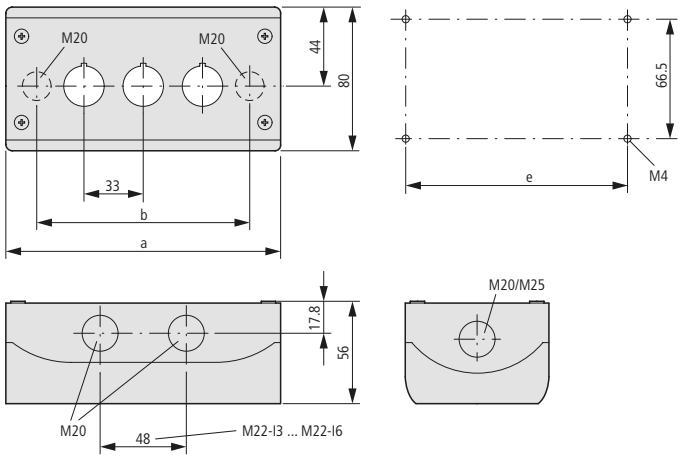


① Box for proper plasterboard mounting
② Plaster thickness of less than 8 mm
③ Plaster thickness of more than 8 mm

Base mounting (style: surface mounting)

RMQ-Titan surface mounting enclosures

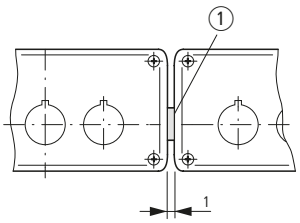
M22-I...



Part no.	Mounting locations	a	b	e	Cable entries		
M22-I(Y)1	1	72	42.6	58.5	2 x M16	3 x M20	2 x M25
M22-I2	2	120	85.6	106.5	2 x M20	3 x M20	2 x M25
M22-I3	3	153	118.6	139.5	2 x M20	2 x M25	4 x M20
M22-I4	4	186	151.6	172.5	2 x M20	2 x M25	4 x M20
M22-I6	6	252	217.6	238.5	2 x M20	2 x M25	4 x M20

Combination of surface mounting enclosures

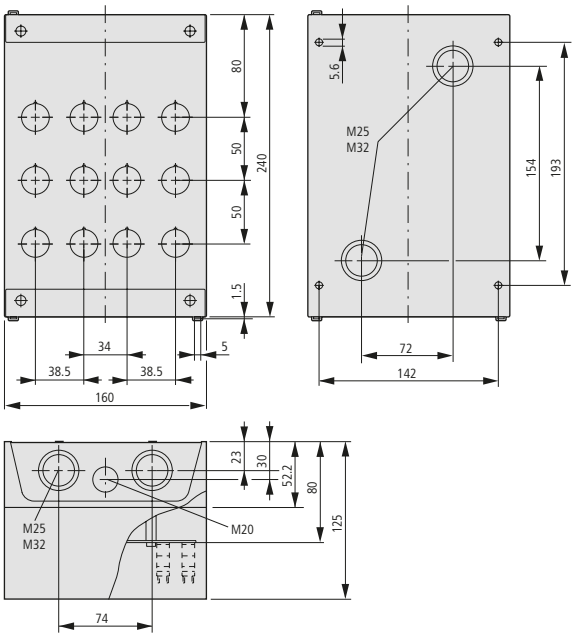
M22-XI



① Gasket

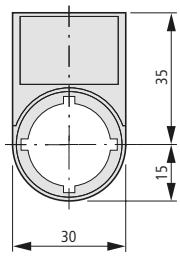
Surface mounting enclosure for 12 mounting locations

M22-I12

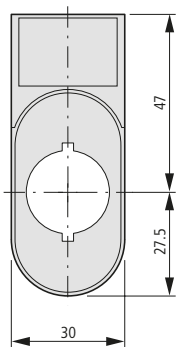


Legend holders

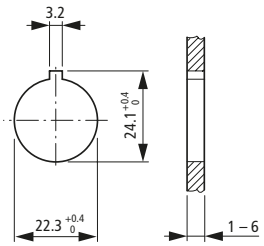
M22S-ST...



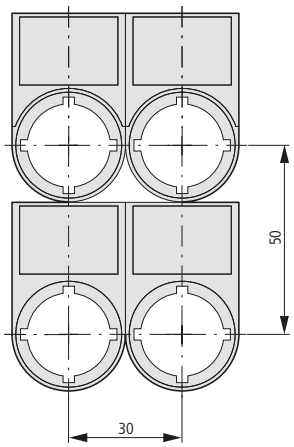
M22S-STDD-X



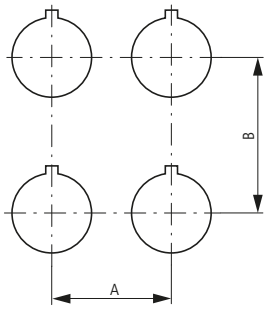
Mounting hole with key slot for M22..., C22...



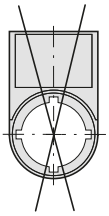
Grid dimensions as defined in IEC/EN 60947



Grid dimensions for various combinations

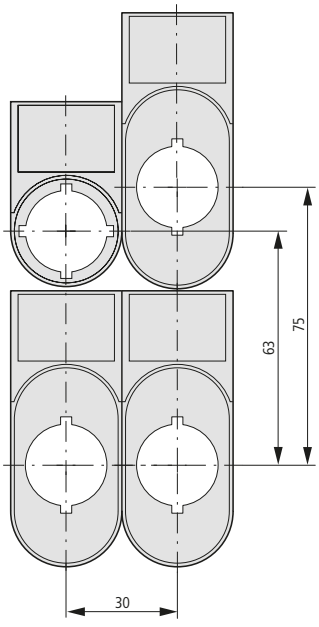


Pushbutton diaphragm cannot be combined with label mount

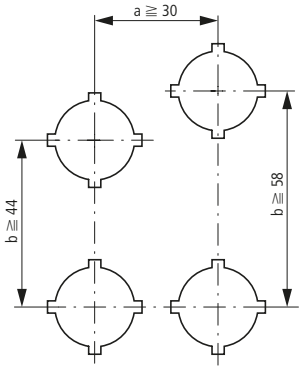


Part no.	A ≧	B ≧
	mm	mm
M22(N/O)-...(IEC/EN 60947)	30	50
RMQ-Titan min.	30	40
M22-D... + M22-T-D	33	40
M22-D(R)P...	38	40
M22-PV...	45	45
M22-PV...45	55	55
M22-PV...60	70	70
M22-PV(L) + M22-PL-PV	48	56
M22-PV(L)(N/O...) + M22-D...	33	40
M22-DDL...	30	55
M22-DDL... + M22-T-DD	33	58
M22-ST...	30	50
M22-STDD...	30	75
M22-CK...	30	45
M22-CLED...	30	45
M22-XAK...	90	90
M22-XZK...	33	52
M22-XBK...	60	60
M22-XYK...	50	50
M22-D4	60	60
M22-WR...4	50	50
M22-W...J4	100	100

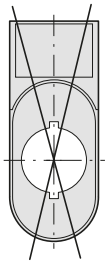
Grid dimensions for M22-DD...



Grid dimensions for M22-DDL

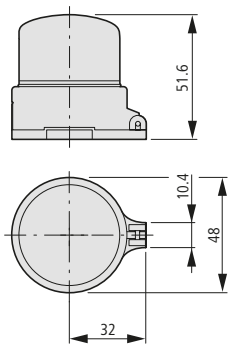


M22-T-DD pushbutton diaphragm
Pushbutton diaphragm cannot be combined with label mount

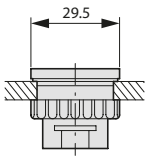


1

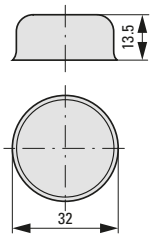
Emergency stop sealable shroud
M22-PL-PV



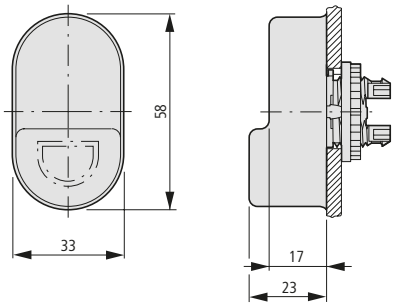
Blanking plug
M22...B-...



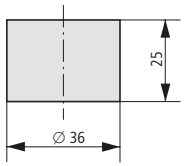
Pushbutton diaphragms
M22-T-D



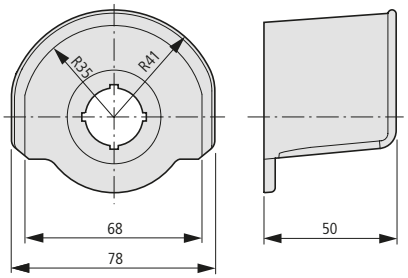
M22-T-D



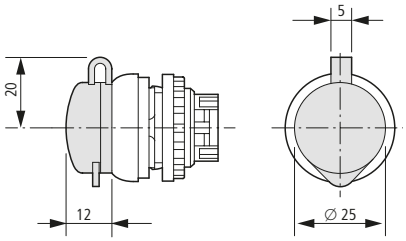
Guard rings
M22-XGWK



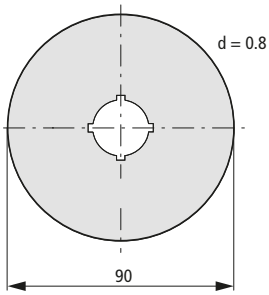
M22-XGPV



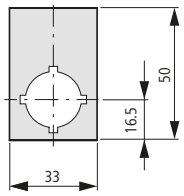
Protective diaphragm
M22-XWS



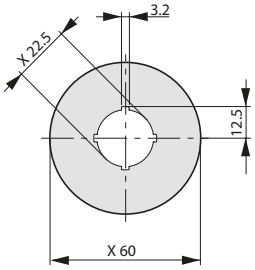
Controlled stop legend plates
M22-XAK...



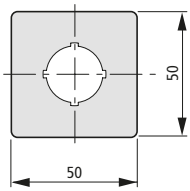
M22-X(Y)ZK...



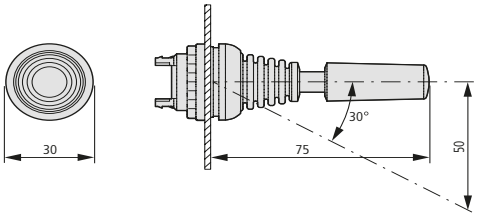
M22-XBK-...



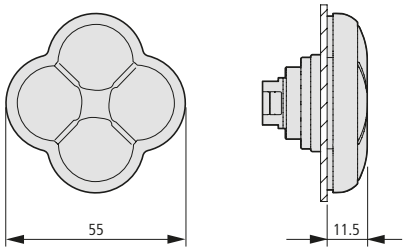
M22-XYK-...



Joysticks
M22…-W...J...

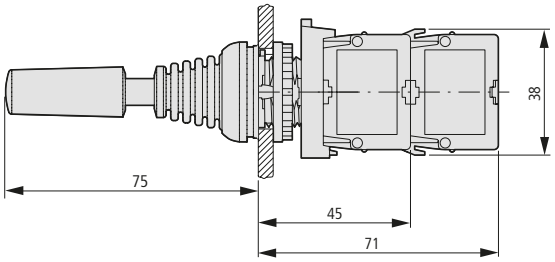


4-way pushbuttons
M22-D...4-...



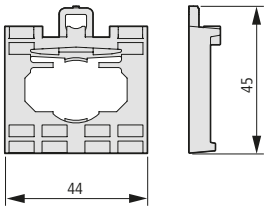
Joysticks

M22-WJ…, M22-WRJ…

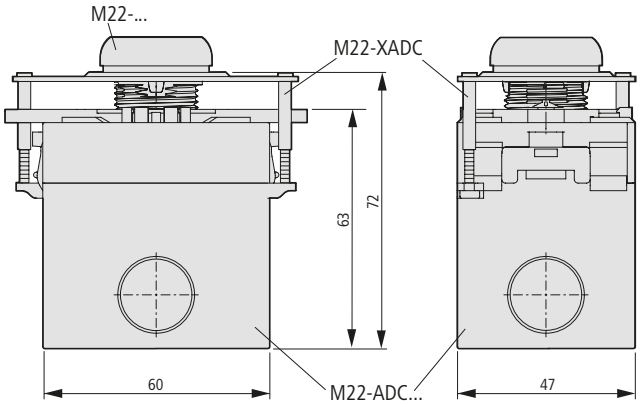


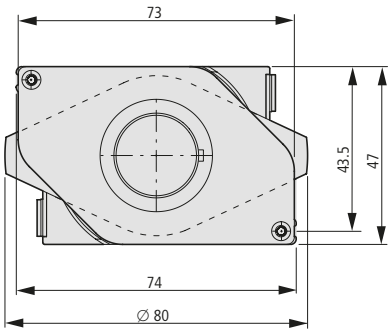
Mounting adapter

M22-A4



Dust covers

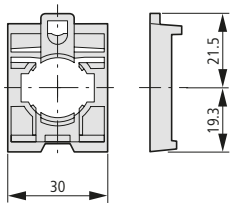




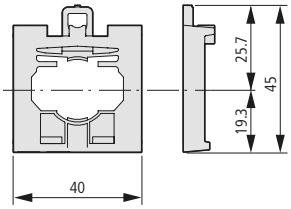
1

Mounting adapters (front mounting) for 3 contact/LED elements

M22-A

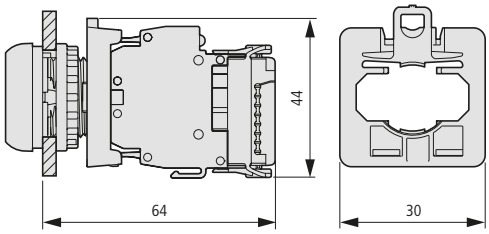


M22-SWD-A4



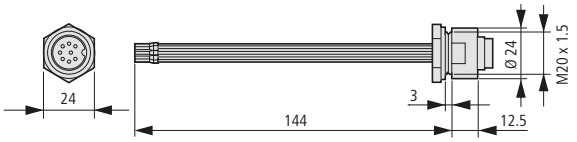
Function elements

M22-SWD-K...
M22-SWD-LED...



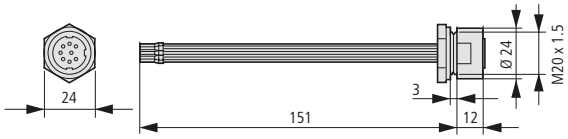
Housing bushing plug

SWD4-SM8-20



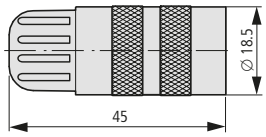
Housing bushing socket

SWD4-SF8-20

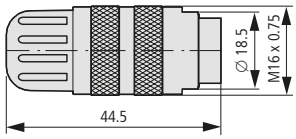


Plug connector for SmartWire-DT round cable, straight

SWD4-SF8-67

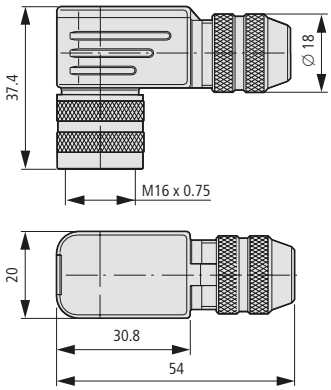


SWD4-SM8-67

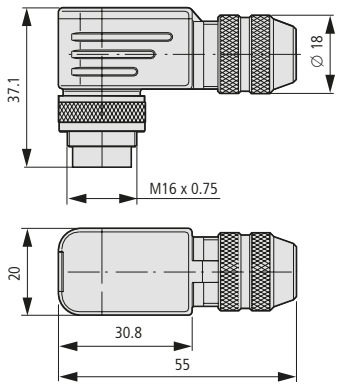


Plug connector for SmartWire-DT round cable, right angle

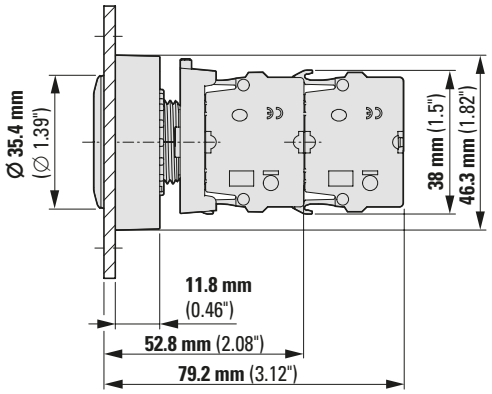
SWD4-SF8-67W



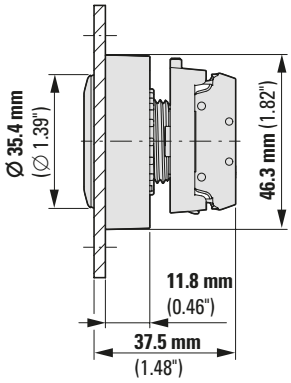
SWD4-SM8-67W



M30.... with 2 M22-K... standard contact elements

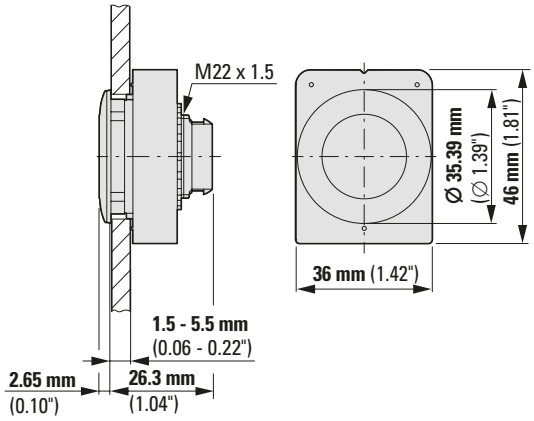


M30.... with M22-FK... Flat Rear contact elements



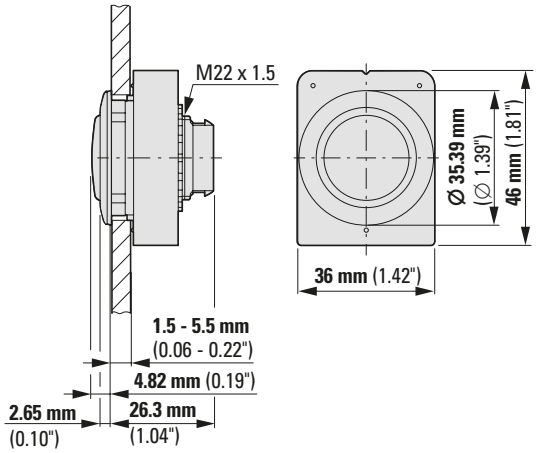
Pushbuttons, blanking plug

M30C-FD...
M30C-FB



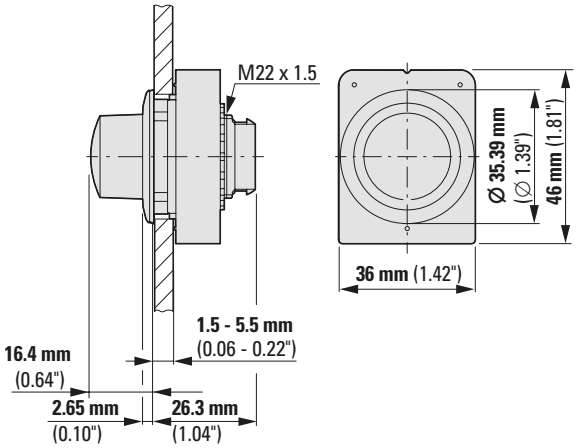
Indicator lights

M30C-FL...



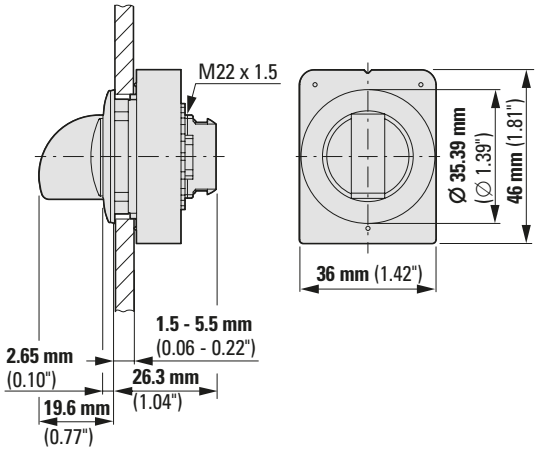
Selector switches

With rotary head
M30C-FW...



(Illuminated) selector switches

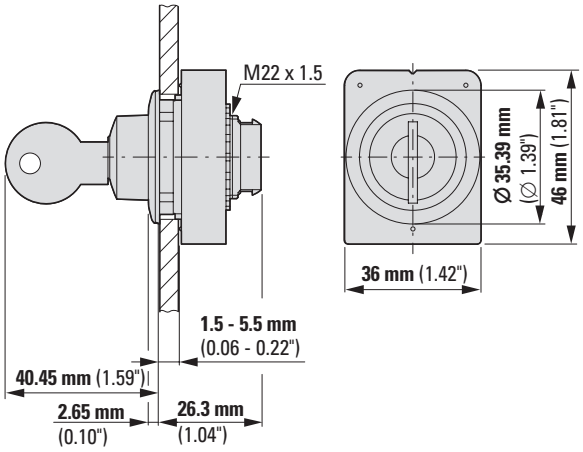
With thumb-grip, 4-way
M30C-FW(L)K(V)-...



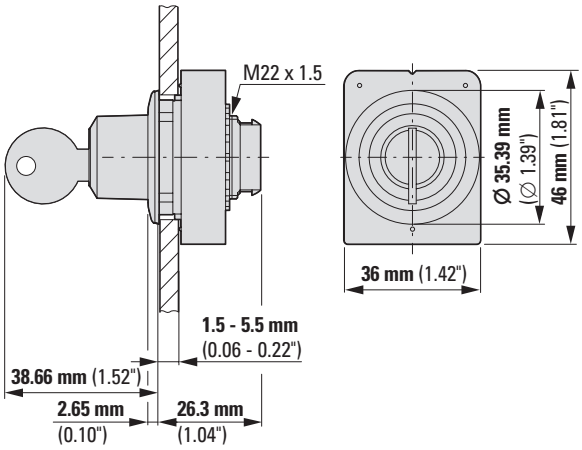
1

Key-operated buttons

M30C-FW(R)S(3)-MS...

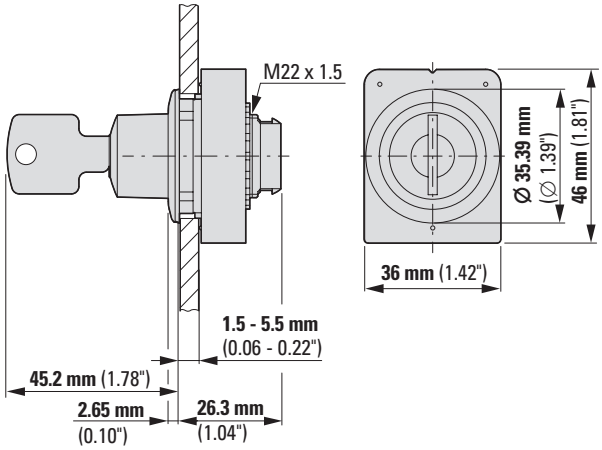


M30C-FW(R)S(3)-RS...



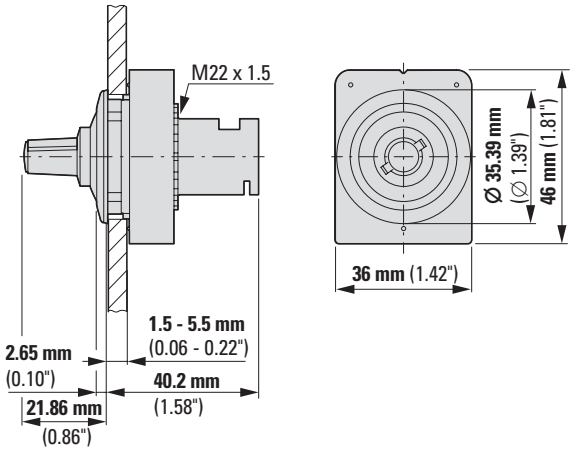
Key-operated buttons

M30C-FW(R)S(3)-SA...



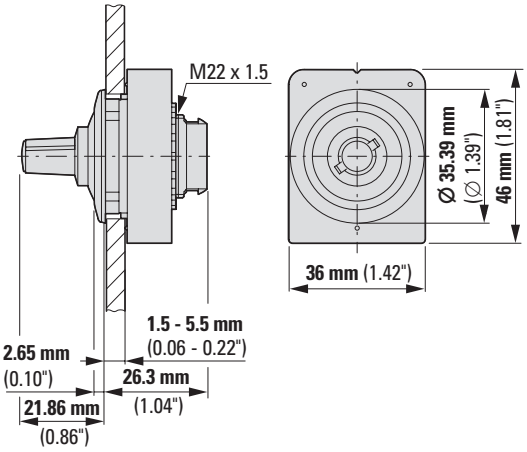
Potentiometers

M30C-FR...



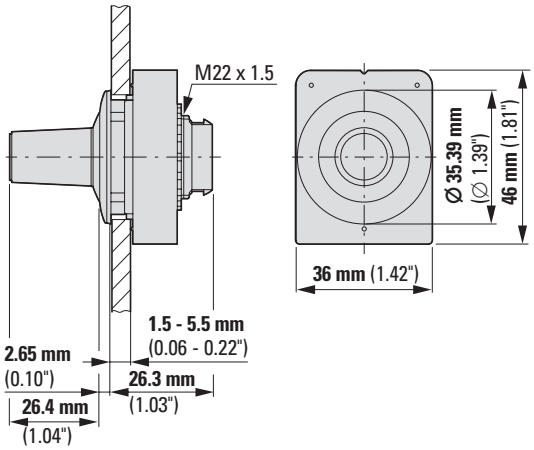
Potentiometers, SmartWire-DT

M30C-FR-SWD



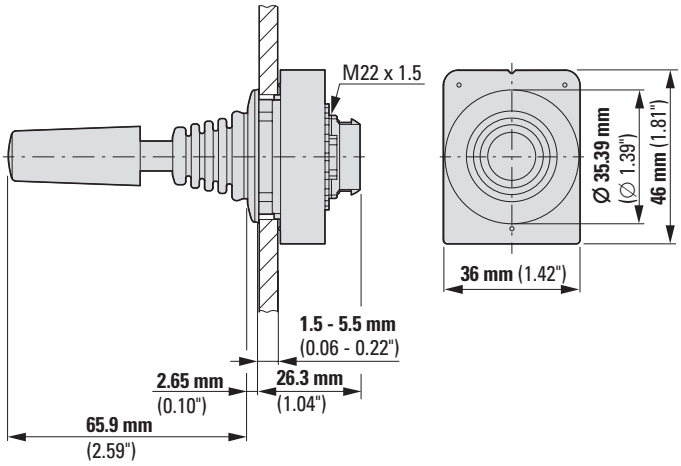
Encoders, SmartWire-DT

M30C-FINC-SWD

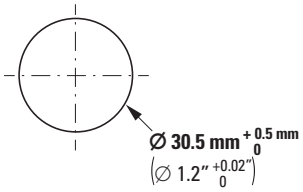


Joysticks

M30C-FW(R)JS...

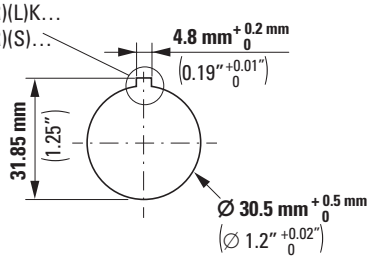


Mounting hole without key slot

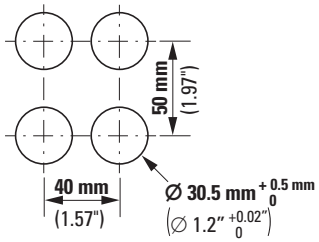


Mounting hole with key slot

M30C-FW(R)(L)K…
M30C-FW(R)(S)…



Grid dimensions for various combinations



Build it in.

RMQ *compact* solution
Simple. Reliable. Compact.

Download the brochure
by visiting the product page
www.eaton.eu/RMQcompact

The C22 and C30 RMQ *compact* solution series combine connection cables with or without a plug connection together with signaling and operator elements into a single device. This turns them into an all-in-one solution that provides full protection against dust, fine foreign particles, and liquids, for example. Thanks to a high degree of protection of up to IP69K in the front and IP65 in the back, these devices are perfect for direct installation in applications such as woodworking machines and similar machine tools.

RMQ *compact* solution devices feature a sleek design that enhances machines, systems, and a broad range of additional applications. Whether you decide on our traditional C22 design or on the flush C30 version, you can rest assured knowing that we have a solution for every application out there.

C20
C30

2.0 RMQ compact solution

2.1 System overview

C22 – System overview **96**

2.2 Product selection

C22 – Controlled stop/emergency-stop buttons. **98**
C22 – Pushbuttons **99**
C22 – Selector switches. **102**
C22 – Key-operated buttons **104**
C22 – Indicator lights **106**
C22 – Illuminated pushbutton actuators **108**
C22 – Illuminated pushbutton actuators, accessories **109**

2.3 System overview

C30 – System overview **110**

2.4 Product selection

C30 – Pushbuttons **111**
C30 – Indicator lights **113**
C30 – Illuminated pushbutton actuators, accessories **114**

2.5 Technical data

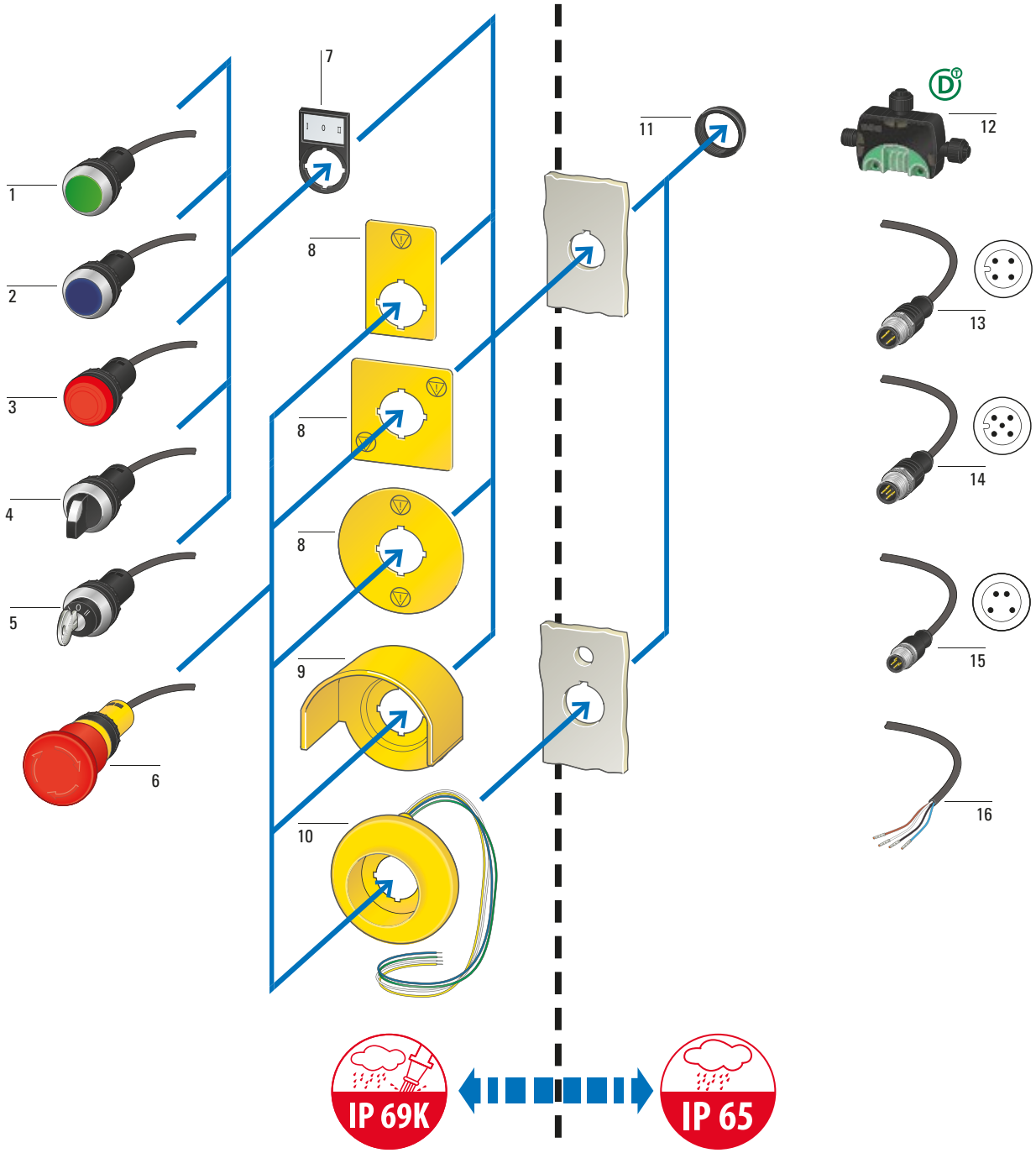
C22/C30 – Technical data **115**

2.6 Dimensions

C22 – Dimensions **116**
C30 – Dimensions **120**

System overview

2



C22 pushbuttons	1
Momentary and maintained
Flush
Colors: white, green, red, black
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
→ Page 99

C22 illuminated pushbutton actuators	2
Momentary and maintained
Flush
Colors: white, green, red, blue, yellow
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 108

C22 indicator lights	3
Flush
Colors: white, green, red, blue, yellow
With cable (0.2/0.5/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 106

C22 selector switches	4
Momentary and maintained
Flush
With thumb-grip
2 or 3 positions
With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
→ Page 102

C22 key-operated buttons	5
Momentary and maintained
Flush
2 or 3 positions
With cable (0.2/1/3.5 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
→ Page 103

C22 controlled stop/emergency-stop buttons	6
Flush
38 mm and 45 mm diameter
Mushroom or palm
Twist or pull release
Tamper-proof as defined in ISO 13850/EN 418
European Machinery Safety Directive 2006/42/EC
With cable (0.2/1/3.5 m) and plug (M12A, 5 pole) or unterminated cable end (4 pole)
→ Page 98

Label mounts	7
For insert labels
Color: black
Insert labels: aluminum color, with inscription or blank, suitable for engraving
→ Page 16

Controlled STOP legend plates, IP66	8
Color: yellow, with black lettering
Round, rectangular, or square
With controlled stop inscription or controlled stop symbol
→ Page 17

Guard rings	9
For preventing unintended actuation
For 38 mm and 45 mm designs
→ Page 16

Illuminated rings	10
Versions:
24 V AC/DC, 120 V AC, 230 V AC
Continuous light
Flashing light with separate driver
Chaser light with separate driver, 24 V AC/DC
With three LED rows that can be driven separately
→ Page 16

Threaded rings	11
→ Page 70

SmartWire-DT I/O module	12
For connecting digital input/output signals to SmartWire-DT
IP67

Cable with M12A plug, 4 pole	13

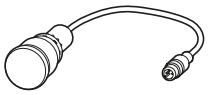
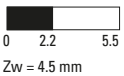
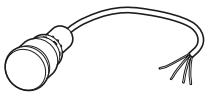
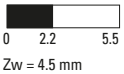
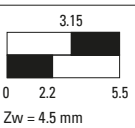
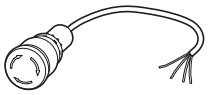
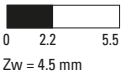
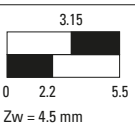
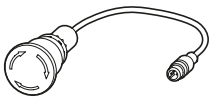
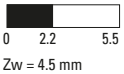
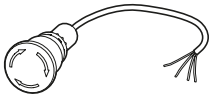
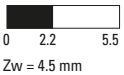
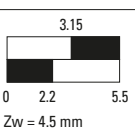
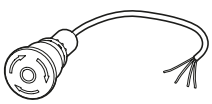
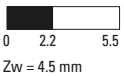
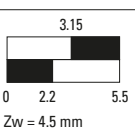
Cable with M12A plug, 5 pole	14

Cable with M8 plug, 4 pole	15

Cable end open, 4 pole	16

Product selection

2

	Connection type	Cable length m	Mushroom head	Contact configuration[1] N/C = Normally closed contact	N/O = Normally open contact	Contact sequence	Contact diagram[2]	Part no. Article no.	Std. pack
Controlled stop/emergency switching off buttons									
Non-illuminated Tamper-proof as defined in ISO 13850, EN 418 IP66, IP67, IP69K (at front) IP65 (at rear) Yellow base									
Mushroom-shaped Pull release 38 mm diameter 	Cable (black) with M12A plug, 5 pole	0.2		2 N/C ⊖				**C22-PV-K02-P10** 185184	1 unit
Mushroom-shaped Pull release 38 mm diameter 	Cable (black) with unterminated end, 4 pole	1		2 N/C ⊖				**C22-PV-K02-P62** 185169	1 unit
		3.5						**C22-PV-K02-P65** 185170	
		1		1 N/C ⊖	1 N/O			**C22-PV-K11-P62** 185174	
		3.5						**C22-PV-K11-P65** 185175	
Mushroom-shaped Turn-to-release function 38 mm diameter 	Cable (black) with unterminated end, 4 pole	1		2 N/C ⊖				**C22-PVT-K02-P62** 185176	1 unit
		3.5						**C22-PVT-K02-P65** 185177	
		1		1 N/C ⊖	1 N/O			**C22-PVT-K11-P62** 185181	
		3.5						**C22-PVT-K11-P65** 185182	
Palm Turn-to-release function 45 mm diameter 	Cable (black) with M12A plug, 5 pole	0.2		2 N/C ⊖				**C22-PVT45P-K02-P10** 185183	1 unit
Palm Turn-to-release function 45 mm diameter 	Cable (black) with unterminated end, 4 pole	1		2 N/C ⊖				**C22-PVT45P-K02-P62** 185155	1 unit
		3.5						**C22-PVT45P-K02-P65** 185156	
		1		1 N/C ⊖	1 N/O			**C22-PVT45P-K11-P62** 185160	
		3.5						**C22-PVT45P-K11-P65** 185161	
Palm Turn-to-release function 45 mm diameter With mechanical position indicator[3] 	Cable (black) with unterminated end, 4 pole	1		2 N/C ⊖				**C22-PVT45P-MPI-K02-P62** 185162	1 unit
		3.5						**C22-PVT45P-MPI-K02-P65** 185163	
		1		1 N/C ⊖	1 N/O			**C22-PVT45P-MPI-K11-P62** 185167	
		3.5						**C22-PVT45P-MPI-K11-P65** 185168	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence ■ = Contact closed □ = Contact open
[3] Green switch position indicator → Button not activated

Cable (black) with M12A plug, 4 pole

Pushbuttons

Silver bezel
IP66, IP67, IP69K (at front), IP65 (at rear)
Flush

Cable length m	Button plate	Contact configuration[1] N/O = Normally open contact	Contact configuration[1] N/C = Normally closed contact	Contact sequence[2]	Contact diagram	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
0.2	●		1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P1** 185675	**C22-DR-R-K01-P1** 185684	1 unit
	●					**C22-D-S-K01-P1** 185676	**C22-DR-S-K01-P1** 185685	
	Without button plate					**C22-D-X-K01-P1** 185678	**C22-DR-X-K01-P1** 185687	
	●	1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P1** 185674	**C22-DR-G-K10-P1** 185683	
	○					**C22-D-W-K10-P1** 185677	**C22-DR-W-K10-P1** 185686	
	Without button plate					**C22-D-X-K10-P1** 185680	**C22-DR-X-K10-P1** 185689	
0.5	●		1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P3** 181633	**C22-DR-R-K01-P3** 181611	1 unit
	●					**C22-D-S-K01-P3** 181634	**C22-DR-S-K01-P3** 181612	
	Without button plate					**C22-D-X-K01-P3** 181605	**C22-DR-X-K01-P3** 181614	
	●	1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P3** 181632	**C22-DR-G-K10-P3** 181610	
	○					**C22-D-W-K10-P3** 181635	**C22-DR-W-K10-P3** 181613	
	Without button plate					**C22-D-X-K10-P3** 181607	**C22-DR-X-K10-P3** 181616	
1	●		1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P5** 181043	**C22-DR-R-K01-P5** 181081	1 unit
	●					**C22-D-S-K01-P5** 181045	**C22-DR-S-K01-P5** 181083	
	Without button plate					**C22-D-X-K01-P5** 181049	**C22-DR-X-K01-P5** 181087	
	●	1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P5** 181041	**C22-DR-G-K10-P5** 181079	
	○					**C22-D-W-K10-P5** 181047	**C22-DR-W-K10-P5** 181085	
	Without button plate					**C22-D-X-K10-P5** 181051	**C22-DR-X-K10-P5** 181089	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

2

Cable (black) with M8 plug, 4 pole

Pushbuttons

Silver bezel
IP66, IP67, IP69K (at front), IP65 (at rear)
Flush

Cable length m	Button plate	Contact configuration[1] N/O = Normally open contact	N/C = Normally closed contact	Contact sequence[2]	Contact diagram	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
0.2			1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P30** 185693	**C22-DR-R-K01-P30** 185702	1 unit
						C22-D-S-K01-P30 185694	**C22-DR-S-K01-P30** 185703	
	Without button plate					**C22-D-X-K01-P30** 185696	**C22-DR-X-K01-P30** 185705	
		1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P30** 185692	**C22-DR-G-K10-P30** 185701	
						C22-D-W-K10-P30 185695	**C22-DR-W-K10-P30** 185704	
	Without button plate					**C22-D-X-K10-P30** 185698	**C22-DR-X-K10-P30** 185707	
0.5			1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P31** 185635	**C22-DR-R-K01-P31** 185644	1 unit
						C22-D-S-K01-P31 185636	**C22-DR-S-K01-P31** 185645	
	Without button plate					**C22-D-X-K01-P31** 185638	**C22-DR-X-K01-P31** 185647	
		1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P31** 185634	**C22-DR-G-K10-P31** 185643	
						C22-D-W-K10-P31 185637	**C22-DR-W-K10-P31** 185646	
	Without button plate					**C22-D-X-K10-P31** 185640	**C22-DR-X-K10-P31** 185649	
1			1 N/C ⊖	1 4	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P32** 185653	**C22-DR-R-K01-P32** 185662	1 unit
						C22-D-S-K01-P32 185654	**C22-DR-S-K01-P32** 185663	
	Without button plate					**C22-D-X-K01-P32** 185656	**C22-DR-X-K01-P32** 185665	
		1 N/O		1 4	0 3.15 5.5	**C22-D-G-K10-P32** 185652	**C22-DR-G-K10-P32** 185661	
						C22-D-W-K10-P32 185655	**C22-DR-W-K10-P32** 185664	
	Without button plate					**C22-D-X-K10-P32** 185658	**C22-DR-X-K10-P32** 185667	

Notes
[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

Cable (black) with unterminated end, 4 pole

Pushbuttons

Silver bezel
IP66, IP67, IP69K (at front), IP65 (at rear)
Flush

Cable length m	Button plate	Contact configuration[1] N/O = Normally open contact	N/C = Normally closed contact	Contact sequence[2]	Contact diagram	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
1			1 N/C ⊖	BN BK	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P62** 185671	**C22-DR-R-K01-P62** 185608	1 unit
						C22-D-S-K01-P62 185672	**C22-DR-S-K01-P62** 185609	
	Without button plate					**C22-D-X-K01-P62** 185602	**C22-DR-X-K01-P62** 185611	
	Without button plate		2 N/C ⊖	BN WH BK BU	0 2.2 5.5 Zw = 4.5 mm	**C22-D-X-K02-P62** 185603	**C22-DR-X-K02-P62** 185612	
	Without button plate	1 N/O	1 N/C ⊖	BN WH BK BU	3.15 0 2.2 5.5 Zw = 4.5 mm	**C22-D-X-K11-P62** 185605	**C22-DR-X-K11-P62** 185614	
		1 N/O		BN BK	0 3.15 5.5	**C22-D-G-K10-P62** 185670	**C22-DR-G-K10-P62** 185607	
						C22-D-W-K10-P62 185673	**C22-DR-W-K10-P62** 185610	
	Without button plate					**C22-D-X-K10-P62** 185604	**C22-DR-X-K10-P62** 185613	
	Without button plate	2 N/O		BN WH BK BU	0 3.15 5.5	**C22-D-X-K20-P62** 185606	**C22-DR-X-K20-P62** 185615	
3.5			1 N/C ⊖	BN BK	0 2.2 5.5 Zw = 4.5 mm	**C22-D-R-K01-P65** 185617	**C22-DR-R-K01-P65** 185626	1 unit
						C22-D-S-K01-P65 185618	**C22-DR-S-K01-P65** 185627	
	Without button plate					**C22-D-X-K01-P65** 185620	**C22-DR-X-K01-P65** 185629	
	Without button plate		2 N/C ⊖	BN WH BK BU	0 2.2 5.5 Zw = 4.5 mm	**C22-D-X-K02-P65** 185621	**C22-DR-X-K02-P65** 185630	
	Without button plate	1 N/O	1 N/C ⊖	BN WH BK BU	3.15 0 2.2 5.5 Zw = 4.5 mm	**C22-D-X-K11-P65** 185623	**C22-DR-X-K11-P65** 185632	
		1 N/O		BN BK	0 3.15 5.5	**C22-D-G-K10-P65** 185616	**C22-DR-G-K10-P65** 185625	
						C22-D-W-K10-P65 185619	**C22-DR-W-K10-P65** 185628	
	Without button plate					**C22-D-X-K10-P65** 185622	**C22-DR-X-K10-P65** 185631	
	Without button plate	2 N/O		BN WH BK BU	0 3.15 5.5	**C22-D-X-K20-P65** 185624	**C22-DR-X-K20-P65** 185633	

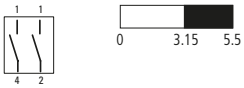
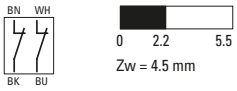
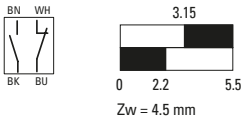
Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

2

Function:	Contact configuration[1]		Contact sequence	Contact diagram[2]	Cable length of 0.2 m **Part no.** Article no.	Cable length of 1 m **Part no.** Article no.	Std. pack
= Momentary = Maintained	N/O = Normally open contact	N/C = Normally closed contact					
Selector switches							
Silver bezel With thumb-grip IP66 (at front), IP65 (at rear)							
2 positions Cable (black) with M12A plug, 4 pole 							
40°	1 N/O		1 4	0 3.15 5.5	**C22-WK-K10-P1** 186098	**C22-WK-K10-P5** 186114	1 unit
60°					**C22-WRK-K10-P1** 186103	**C22-WRK-K10-P5** 186119	
2 positions Cable (black) with M8 plug, 4 pole 							
40°	1 N/O		1 4	0 3.15 5.5	**C22-WK-K10-P30** 186130	**C22-WK-K10-P32** 186146	1 unit
60°					**C22-WRK-K10-P30** 186135	**C22-WRK-K10-P32** 186151	
2 positions Cable (black) with unterminated end, 4 pole 							
40°		1 N/C ⊖	BN BK	0 2.2 5.5 Zw = 4.5 mm	**C22-WK-K01-P62** 186161	**C22-WK-K01-P65** 186177	1 unit
60°					**C22-WRK-K01-P62** 186166	**C22-WRK-K01-P65** 186182	
40°		2 N/C ⊖	BN WH BK BU	0 2.2 5.5 Zw = 4.5 mm	**C22-WK-K02-P62** 186158	**C22-WK-K02-P65** 186174	
60°					**C22-WRK-K02-P62** 186163	**C22-WRK-K02-P65** 186179	
40°	1 N/O	1 N/C ⊖	BN WH BK BU	3.15 0 2.2 5.5 Zw = 4.5 mm	**C22-WK-K11-P62** 186159	**C22-WK-K11-P65** 186175	
60°					**C22-WRK-K11-P62** 186164	**C22-WRK-K11-P65** 186180	
40°	1 N/O		BN BK	0 3.15 5.5	**C22-WK-K10-P62** 186162	**C22-WK-K10-P65** 186178	
60°					**C22-WRK-K10-P62** 186167	**C22-WRK-K10-P65** 186183	
40°	2 N/O		BN WH BK BU	0 3.15 5.5	**C22-WK-K20-P62** 186160	**C22-WK-K20-P65** 186176	
60°					**C22-WRK-K20-P62** 186165	**C22-WRK-K20-P65** 186181	

Notes
[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

Function:	Contact configuration[1]		Contact sequence	Contact diagram[2]	Cable length of 0.2 m **Part no.** Article no.	Cable length of 1 m **Part no.** Article no.	Std. pack
= Momentary = Maintained	N/O = Normally open contact	N/C = Normally closed contact					
Selector switches							
Silver bezel With thumb-grip IP66 (at front), IP65 (at rear)							
3 positions **Cable (black) with M12A plug, 4 pole** 	40° 40°	2 N/O			**C22-WK3-K20-P1** 186106	**C22-WK3-K20-P5** 186122	1 unit
	60° 60°				**C22-WRK3-K20-P1** 186109	**C22-WRK3-K20-P5** 186125	
3 positions **Cable (black) with M8 plug, 4 pole** 	40° 40°	2 N/O			**C22-WK3-K20-P30** 186138	**C22-WK3-K20-P32** 186154	1 unit
	60° 60°				**C22-WRK3-K20-P30** 186141	**C22-WRK3-K20-P32** 186157	
3 positions **Cable (black) with unterminated end, 4 pole** 	40° 40°	2 N/C ⊖			**C22-WK3-K02-P62** 186168	**C22-WK3-K02-P65** 186184	1 unit
	60° 60°				**C22-WRK3-K02-P62** 186171	**C22-WRK3-K02-P65** 186187	
	40° 40°	1 N/O	1 N/C ⊖		**C22-WK3-K11-P62** 186169	**C22-WK3-K11-P65** 186185	
	60° 60°				**C22-WRK3-K11-P62** 186172	**C22-WRK3-K11-P65** 186188	
	40° 40°	2 N/O			**C22-WK3-K20-P62** 186170	**C22-WK3-K20-P65** 186186	
	60° 60°				**C22-WRK3-K20-P62** 186173	**C22-WRK3-K20-P65** 186189	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

[2] Contact sequence: ■ = Contact closed □ = Contact open

2

Function:	Key withdrawable at position	Contact configuration[1]		Contact sequence	Contact diagram	Cable length of 0.2 m **Part no.** Article no.	Cable length of 1 m **Part no.** Article no.	Std. pack
= Momentary = Maintained		N/O = Normally open contact	N/C = Normally closed contact					
Key-operated buttons Silver bezel MS1 lock mechanism Not suitable for master key systems With 1 key IP66 (at front), IP65 (at rear)								
2 positions **Cable (black) with M12A plug, 4 pole** 								
40°	0	1 N/O		1 4	0 3.15 5.5	**C22-WS-MS1-K10-P1** 186194	**C22-WS-MS1-K10-P5** 186210	1 unit
60°	I 0					**C22-WRS-MS1-K10-P1** 186199	**C22-WRS-MS1-K10-P5** 186215	
2 positions **Cable (black) with M8 plug, 4 pole** 								
40°	0	1 N/O		1 4	0 3.15 5.5	**C22-WS-MS1-K10-P30** 186226	**C22-WS-MS1-K10-P32** 186242	1 unit
60°	I 0					**C22-WRS-MS1-K10-P30** 186231	**C22-WRS-MS1-K10-P32** 186247	
2 positions **Cable (black) with unterminated end, 4 pole** 								
40°	0		1 N/C ⊖	BN BK	0 2.2 5.5 Zw = 4.5 mm	**C22-WS-MS1-K01-P62** 186257	**C22-WS-MS1-K01-P65** 186273	1 unit
60°	I 0					**C22-WRS-MS1-K01-P62** 186262	**C22-WRS-MS1-K01-P65** 186278	
40°	0		2 N/C ⊖	BN WH BK BU	0 2.2 5.5 Zw = 4.5 mm	**C22-WS-MS1-K02-P62** 186254	**C22-WS-MS1-K02-P65** 186270	
60°	I 0					**C22-WRS-MS1-K02-P62** 186259	**C22-WRS-MS1-K02-P65** 186275	
40°	0	1 N/O	1 N/C ⊖	BN WH BK BU	3.15 0 2.2 5.5 Zw = 4.5 mm	**C22-WS-MS1-K11-P62** 186255	**C22-WS-MS1-K11-P65** 186271	
60°	I 0					**C22-WRS-MS1-K11-P62** 186260	**C22-WRS-MS1-K11-P65** 186276	
40°	0	1 N/O		BN BK	0 3.15 5.5	**C22-WS-MS1-K10-P62** 186258	**C22-WS-MS1-K10-P65** 186274	
60°	I 0					**C22-WRS-MS1-K10-P62** 186263	**C22-WRS-MS1-K10-P65** 186279	
40°	0	2 N/O		BN WH BK BU	0 3.15 5.5	**C22-WS-MS1-K20-P62** 186256	**C22-WS-MS1-K20-P65** 186272	
60°	I 0					**C22-WRS-MS1-K20-P62** 186261	**C22-WRS-MS1-K20-P65** 186277	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence ■ = Contact closed □ = Contact open

Function:	Key withdrawable at position	Contact configuration[1]		Contact sequence	Contact diagram	Cable length of 0.2 m **Part no.** Article no.	Cable length of 1 m **Part no.** Article no.	Std. pack
▷ = Momentary ⌊ = Maintained		N/O = Normally open contact	N/C = Normally closed contact					
Key-operated buttons								
Silver bezel MS1 lock mechanism Not suitable for master key systems With 1 key IP66 (at front), IP65 (at rear)								
3 positions Cable (black) with M12A plug, 4 pole 	40° ◁▷ 40°	0	2 N/O			**C22-WS3-MS1-K20-P1** 186202	**C22-WS3-MS1-K20-P5** 186218	1 unit
	60° ⌊ 60° I 0 II					**C22-WRS3-MS1-K20-P1** 186205	**C22-WRS3-MS1-K20-P5** 186221	
3 positions Cable (black) with M8 plug, 4 pole 	40° ◁▷ 40°	0	2 N/O			**C22-WS3-MS1-K20-P30** 186234	**C22-WS3-MS1-K20-P32** 186250	1 unit
	60° ⌊ 60° I 0 II					**C22-WRS3-MS1-K20-P30** 186237	**C22-WRS3-MS1-K20-P32** 186253	
3 positions Cable (black) with unterminated end, 4 pole 	40° ◁▷ 40°	0	2 N/C ⊖			**C22-WS3-MS1-K02-P62** 186264	**C22-WS3-MS1-K02-P65** 186280	1 unit
	60° ⌊ 60° I 0 II					**C22-WRS3-MS1-K02-P62** 186267	**C22-WRS3-MS1-K02-P65** 186283	
	40° ◁▷ 40°	0	1 N/O	1 N/C ⊖		**C22-WS3-MS1-K11-P62** 186265	**C22-WS3-MS1-K11-P65** 186281	
	60° ⌊ 60° I 0 II					**C22-WRS3-MS1-K11-P62** 186268	**C22-WRS3-MS1-K11-P65** 186284	
	40° ◁▷ 40°	0	2 N/O			**C22-WS3-MS1-K20-P62** 186266	**C22-WS3-MS1-K20-P65** 186282	
	60° ⌊ 60° I 0 II					**C22-WRS3-MS1-K20-P62** 186269	**C22-WRS3-MS1-K20-P65** 186285	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

[2] Contact sequence ■ = Contact closed □ = Contact open

2

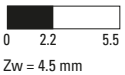
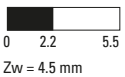
Indicator lights

Flush
LED rated operating voltage: 24 V AC/DC
IP66, IP67, IP69K (at front), IP65 (at rear)

	Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
	Cable (black) with M12A plug, 4 pole	0.2	blue	blue		**C22-L-B-24-P1** 185119	1 unit
			green	green		**C22-L-G-24-P1** 185120	
			red	red		**C22-L-R-24-P1** 185121	
			white	white		**C22-L-W-24-P1** 185122	
			yellow	white		**C22-L-Y-24-P1** 185123	
		0.5	blue	blue		**C22-L-B-24-P3** 181619	
			green	green		**C22-L-G-24-P3** 181620	
			red	red		**C22-L-R-24-P3** 181621	
			white	white		**C22-L-W-24-P3** 181622	
			yellow	white		**C22-L-Y-24-P3** 181623	
		1	blue	blue		**C22-L-B-24-P5** 181137	
			green	green		**C22-L-G-24-P5** 181139	
			red	red		**C22-L-R-24-P5** 181141	
			white	white		**C22-L-W-24-P5** 181059	
			yellow	white		**C22-L-Y-24-P5** 181061	
	Cable (black) with M8 plug, 4 pole	0.2	blue	blue		**C22-L-B-24-P30** 185124	1 unit
			green	green		**C22-L-G-24-P30** 185125	
			red	red		**C22-L-R-24-P30** 185126	
			white	white		**C22-L-W-24-P30** 185127	
			yellow	white		**C22-L-Y-24-P30** 185128	
		0.5	blue	blue		**C22-L-B-24-P31** 185129	
			green	green		**C22-L-G-24-P31** 185130	
			red	red		**C22-L-R-24-P31** 185131	
			white	white		**C22-L-W-24-P31** 185132	
			yellow	white		**C22-L-Y-24-P31** 185133	
		1	blue	blue		**C22-L-B-24-P32** 185134	
			green	green		**C22-L-G-24-P32** 185135	
			red	red		**C22-L-R-24-P32** 185136	
			white	white		**C22-L-W-24-P32** 185137	
			yellow	white		**C22-L-Y-24-P32** 185138	

	Connection type	Cable length	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
		m					
Indicator lights							
	Cable (black) with unterminated end, 4 pole	1				**C22-L-B-24-P62** 185139	1 unit
						C22-L-G-24-P62 185140	
						C22-L-R-24-P62 185141	
						C22-L-W-24-P62 185142	
						C22-L-Y-24-P62 185143	
		3.5				**C22-L-B-24-P65** 185144	
						C22-L-G-24-P65 185145	
						C22-L-R-24-P65 185146	
						C22-L-W-24-P65 185147	
						C22-L-Y-24-P65 185148	

Cable length m	Button plate	LED	Contact configuration[1] N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Contact diagram[2]	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
Illuminated pushbutton actuators									
Silver bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear) Flush									
Cable (black) with M12A plug, 4 pole	0.2			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P1** 185555	**C22-DRL-R-K01-24-P1** 185559	1 unit
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P1** 185553	**C22-DRL-B-K10-24-P1** 185557	
							C22-DL-G-K10-24-P1 185554	**C22-DRL-G-K10-24-P1** 185558	
							C22-DL-W-K10-24-P1 185556	**C22-DRL-W-K10-24-P1** 185560	
	0.5			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P3** 181626	**C22-DRL-R-K01-24-P3** 181630	
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P3** 181624	**C22-DRL-B-K10-24-P3** 181628	
							C22-DL-G-K10-24-P3 181625	**C22-DRL-G-K10-24-P3** 181629	
							C22-DL-W-K10-24-P3 181627	**C22-DRL-W-K10-24-P3** 181631	
	1			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P5** 181303	**C22-DRL-R-K01-24-P5** 181368	
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P5** 181298	**C22-DRL-B-K10-24-P5** 181364	
							C22-DL-G-K10-24-P5 181300	**C22-DRL-G-K10-24-P5** 181366	
							C22-DL-W-K10-24-P5 181307	**C22-DRL-W-K10-24-P5** 181370	
Cable (black) with M8 plug, 4 pole	0.2			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P30** 185563	**C22-DRL-R-K01-24-P30** 185567	1 unit
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P30** 185561	**C22-DRL-B-K10-24-P30** 185565	
							C22-DL-G-K10-24-P30 185562	**C22-DRL-G-K10-24-P30** 185566	
							C22-DL-W-K10-24-P30 185564	**C22-DRL-W-K10-24-P30** 185568	
	0.5			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P31** 185571	**C22-DRL-R-K01-24-P31** 185575	
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P31** 185569	**C22-DRL-B-K10-24-P31** 185573	
							C22-DL-G-K10-24-P31 185570	**C22-DRL-G-K10-24-P31** 185574	
							C22-DL-W-K10-24-P31 185572	**C22-DRL-W-K10-24-P31** 185576	
	1			1 N/C		0 2.2 5.5 Zw = 4.5 mm	**C22-DL-R-K01-24-P32** 185579	**C22-DRL-R-K01-24-P32** 185583	
			1 N/O			0 3.15 5.5	**C22-DL-B-K10-24-P32** 185577	**C22-DRL-B-K10-24-P32** 185581	
							C22-DL-G-K10-24-P32 185578	**C22-DRL-G-K10-24-P32** 185582	
							C22-DL-W-K10-24-P32 185580	**C22-DRL-W-K10-24-P32** 185584	

Cable length m	Button plate	LED	Contact configuration[1] N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Contact diagram[2]	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
Illuminated pushbutton actuators									
1				1 N/C ⊖			**C22-DL-R-K01-24-P62** 185587	**C22-DRL-R-K01-24-P62** 185591	1 unit
			1 N/O				**C22-DL-B-K10-24-P62** 185585	**C22-DRL-B-K10-24-P62** 185589	
							C22-DL-G-K10-24-P62 185586	**C22-DRL-G-K10-24-P62** 185590	
							C22-DL-W-K10-24-P62 185588	**C22-DRL-W-K10-24-P62** 185592	
3.5				1 N/C ⊖			**C22-DL-R-K01-24-P65** 185595	**C22-DRL-R-K01-24-P65** 185599	
			1 N/O				**C22-DL-B-K10-24-P65** 185593	**C22-DRL-B-K10-24-P65** 185597	
							C22-DL-G-K10-24-P65 185594	**C22-DRL-G-K10-24-P65** 185598	
							C22-DL-W-K10-24-P65 185596	**C22-DRL-W-K10-24-P65** 185600	

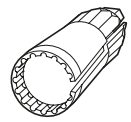
Cable (black) with unterminated end, 4 pole

Notes

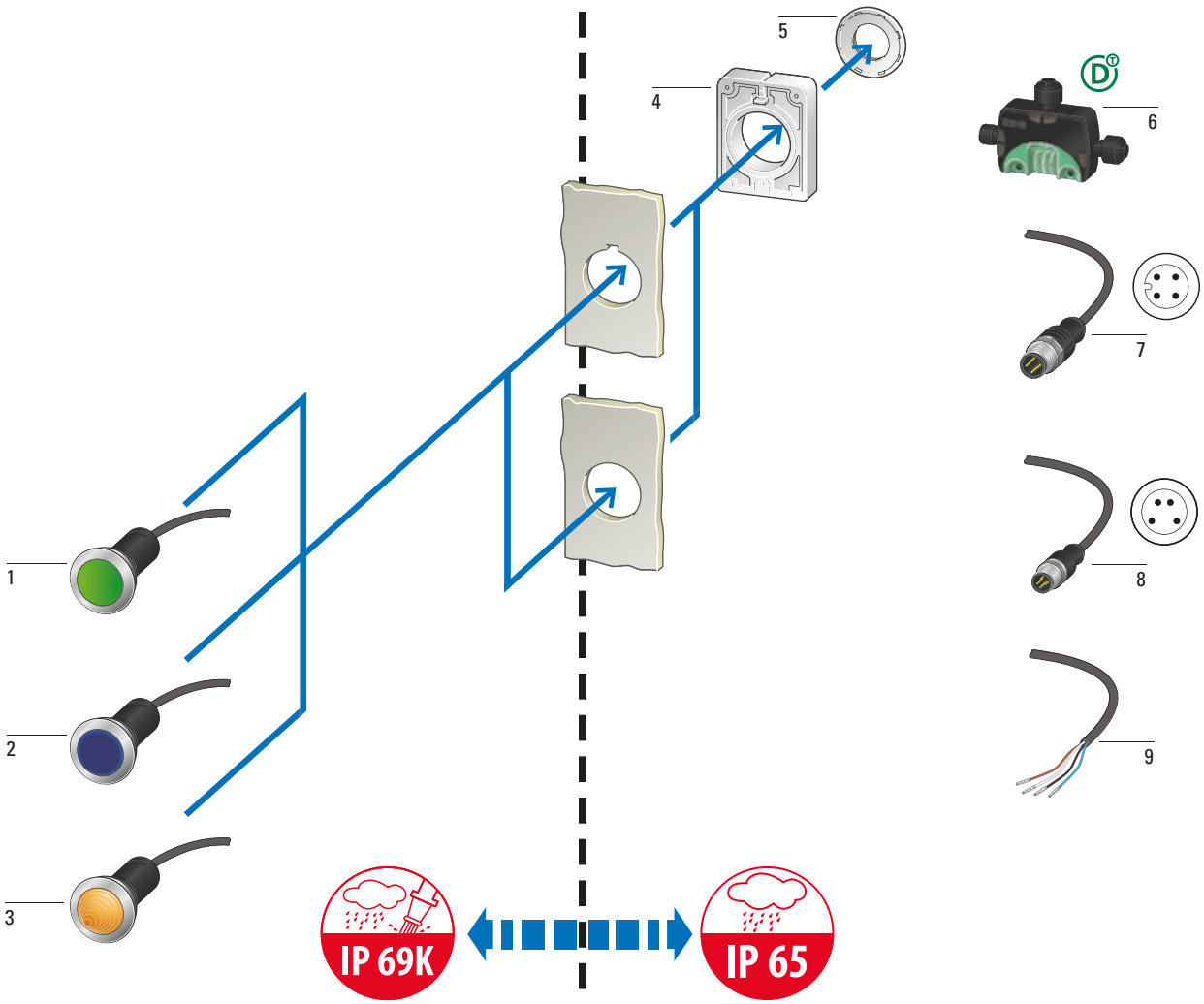
[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

[2] Contact sequence: ■ = Contact closed □ = Contact open

	Part no. Article no.	Std. pack
Mounting ring tool		
For threaded ring; can be used with cordless screwdriver.	**C22-MS** 179955	1 unit



System overview



C30 pushbuttons 1
Momentary and maintained
Flush
Colors: white, green, red, black
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
→ Page 111

C30 illuminated pushbutton actuators 2
Momentary and maintained
Flush
Colors: white, green, red, blue
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 114

C30 indicator lights 3
Flush
Colors: white, green, red, blue, yellow
With cable (1.5 or 3 m) and plug (M12A or M8, 4 pole) or unterminated cable end (4 pole)
24 V AC/DC
→ Page 113

RMQ-AFX anti-rotation tab 4
Included with C30 compact devices

Threaded rings 5
→ Page 70

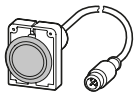
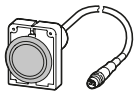
SmartWire-DT I/O module 6
For connecting digital input/output signals to SmartWire-DT
IP67

Cable with M12A plug, 4 pole 7

Cable with M8 plug, 4 pole 8

Cable end open, 4 pole 9

Product selection

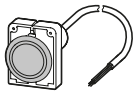
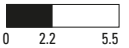
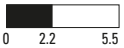
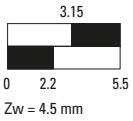
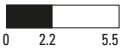
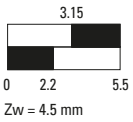
	Cable length	Button plate	Contact configuration[1]		Contact sequence[2]	Contact diagram	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
	m		N/O = Normally open contact	N/C = Normally closed contact					
	Pushbuttons								
	30 mm Flat Front Metal bezel IP66, IP67, IP69K (at front), IP65 (at rear) Flush								
Cable (black) with M12A plug, 4 pole 	1	●		1 N/C ⊖		0 2.2 5.5 Zw = 4.5 mm	**C30C-FD-R-K01-P5** 185987	**C30C-FDR-R-K01-P5** 185996	1 unit
		●					**C30C-FD-S-K01-P5** 185985	**C30C-FDR-S-K01-P5** 185994	
		Without button plate					**C30C-FD-X-K01-P5** 185989	**C30C-FDR-X-K01-P5** 185998	
		●	1 N/O			0 3.15 5.5	**C30C-FD-G-K10-P5** 185988	**C30C-FDR-G-K10-P5** 185997	
		○					**C30C-FD-W-K10-P5** 185986	**C30C-FDR-W-K10-P5** 185995	
		Without button plate					**C30C-FD-X-K10-P5** 185990	**C30C-FDR-X-K10-P5** 185999	
Cable (black) with M8 plug, 4 pole 	1	●		1 N/C ⊖		0 2.2 5.5 Zw = 4.5 mm	**C30C-FD-R-K01-P32** 186018	**C30C-FDR-R-K01-P32** 186027	1 unit
		●					**C30C-FD-S-K01-P32** 186016	**C30C-FDR-S-K01-P32** 186025	
		Without button plate					**C30C-FD-X-K01-P32** 186020	**C30C-FDR-X-K01-P32** 186029	
		●	1 N/O			0 3.15 5.5	**C30C-FD-G-K10-P32** 186019	**C30C-FDR-G-K10-P32** 186028	
		○					**C30C-FD-W-K10-P32** 186017	**C30C-FDR-W-K10-P32** 186026	
		Without button plate					**C30C-FD-X-K10-P32** 186021	**C30C-FDR-X-K10-P32** 186030	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1

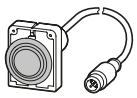
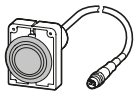
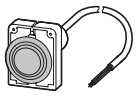
[2] Contact sequence: ■ = Contact closed □ = Contact open

2

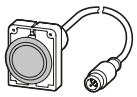
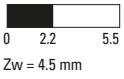
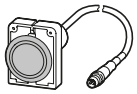
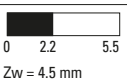
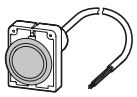
Cable length	Button plate	Contact configuration[1]		Contact sequence[2]	Contact diagram	Momentary Part no. Article no.	Maintained Part no. Article no.	Std. pack
m		N/O = Normally open contact	N/C = Normally closed contact					
Pushbuttons								
Cable (black) with unterminated end, 4 pole 								
1	●		1 N/C ⊖			**C30C-FD-R-K01-P62** 186049	**C30C-FDR-R-K01-P62** 186058	1 unit
	●					**C30C-FD-S-K01-P62** 186047	**C30C-FDR-S-K01-P62** 186056	
	Without button plate					**C30C-FD-X-K01-P62** 186051	**C30C-FDR-X-K01-P62** 186060	
	Without button plate		2 N/C ⊖			**C30C-FD-X-K02-P62** 186055	**C30C-FDR-X-K02-P62** 186064	
	Without button plate	1 N/O	1 N/C ⊖			**C30C-FD-X-K11-P62** 186053	**C30C-FDR-X-K11-P62** 186062	
	●	1 N/O				**C30C-FD-G-K10-P62** 186050	**C30C-FDR-G-K10-P62** 186059	
	○					**C30C-FD-W-K10-P62** 186048	**C30C-FDR-W-K10-P62** 186057	
	Without button plate					**C30C-FD-X-K10-P62** 186052	**C30C-FDR-X-K10-P62** 186061	
	Without button plate	2 N/O				**C30C-FD-X-K20-P62** 186054	**C30C-FDR-X-K20-P62** 186063	
3.5	●		1 N/C ⊖			**C30C-FD-R-K01-P65** 185960	**C30C-FDR-R-K01-P65** 185969	
	●					**C30C-FD-S-K01-P65** 185958	**C30C-FDR-S-K01-P65** 185967	
	Without button plate					**C30C-FD-X-K01-P65** 185962	**C30C-FDR-X-K01-P65** 185971	
	Without button plate		2 N/C ⊖			**C30C-FD-X-K02-P65** 185966	**C30C-FDR-X-K02-P65** 185975	
	Without button plate	1 N/O	1 N/C ⊖			**C30C-FD-X-K11-P65** 185964	**C30C-FDR-X-K11-P65** 185973	
	●	1 N/O				**C30C-FD-G-K10-P65** 185961	**C30C-FDR-G-K10-P65** 185970	
	○					**C30C-FD-W-K10-P65** 185959	**C30C-FDR-W-K10-P65** 185968	
	Without button plate					**C30C-FD-X-K10-P65** 185963	**C30C-FDR-X-K10-P65** 185972	
	Without button plate	2 N/O				**C30C-FD-X-K20-P65** 185965	**C30C-FDR-X-K20-P65** 185974	

Notes

[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

	Connection type	Cable length m	Lens	LED	Contact sequence	Part no. Article no.	Std. pack
	Indicator lights						
	30 mm Flat Front Metal bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear)						
	Cable (black) with M12A plug, 4 pole	1				**C30C-FL-B-24-P5** 186013	1 unit
						C30C-FL-G-24-P5 186012	
						C30C-FL-R-24-P5 186011	
						C30C-FL-W-24-P5 186015	
						C30C-FL-Y-24-P5 186014	
	Cable (black) with M8 plug, 4 pole	1				**C30C-FL-B-24-P32** 186044	1 unit
						C30C-FL-G-24-P32 186043	
						C30C-FL-R-24-P32 186042	
						C30C-FL-W-24-P32 186046	
						C30C-FL-Y-24-P32 186045	
	Cable (black) with unterminated end, 4 pole	1				**C30C-FL-B-24-P62** 185955	1 unit
						C30C-FL-G-24-P62 185954	
						C30C-FL-R-24-P62 185953	
						C30C-FL-W-24-P62 185957	
						C30C-FL-Y-24-P62 185956	
		3.5				**C30C-FL-B-24-P65** 186070	
						C30C-FL-G-24-P65 186069	
						C30C-FL-R-24-P65 185984	
						C30C-FL-W-24-P65 186072	
						C30C-FL-Y-24-P65 186071	

2

Cable length m	Button plate	LED	Contact configuration[1] N/O = Normally open contact	N/C = Normally closed contact	Contact sequence	Contact diagram[2]	Momentary **Part no.** Article no.	Maintained **Part no.** Article no.	Std. pack
Illuminated pushbutton actuators									
30 mm Flat Front Metal bezel LED rated operating voltage: 24 V AC/DC IP66, IP67, IP69K (at front), IP65 (at rear) Flush									
Cable (black) with M12A plug, 4 pole 	1			1 N/C ⊖			**C30C-FDL-R-K01-24-P5** 186004	**C30C-FDRL-R-K01-24-P5** 186008	1 unit
				1 N/O			**C30C-FDL-B-K10-24-P5** 186006	**C30C-FDRL-B-K10-24-P5** 186010	
							C30C-FDL-G-K10-24-P5 186005	**C30C-FDRL-G-K10-24-P5** 186009	
							C30C-FDL-W-K10-24-P5 186003	**C30C-FDRL-W-K10-24-P5** 186007	
Cable (black) with M8 plug, 4 pole 	1			1 N/C ⊖			**C30C-FDL-R-K01-24-P32** 186035	**C30C-FDRL-R-K01-24-P32** 186039	1 unit
				1 N/O			**C30C-FDL-B-K10-24-P32** 186037	**C30C-FDRL-B-K10-24-P32** 186041	
							C30C-FDL-G-K10-24-P32 186036	**C30C-FDRL-G-K10-24-P32** 186040	
							C30C-FDL-W-K10-24-P32 186034	**C30C-FDRL-W-K10-24-P32** 186038	
Cable (black) with unterminated end, 4 pole 	1			1 N/C ⊖			**C30C-FDL-R-K01-24-P62** 186066	**C30C-FDRL-R-K01-24-P62** 185950	1 unit
				1 N/O			**C30C-FDL-B-K10-24-P62** 186068	**C30C-FDRL-B-K10-24-P62** 185952	
							C30C-FDL-G-K10-24-P62 186067	**C30C-FDRL-G-K10-24-P62** 185951	
							C30C-FDL-W-K10-24-P62 186065	**C30C-FDRL-W-K10-24-P62** 185949	
	3.5			1 N/C ⊖			**C30C-FDL-R-K01-24-P65** 185977	**C30C-FDRL-R-K01-24-P65** 185981	
				1 N/O			**C30C-FDL-B-K10-24-P65** 185979	**C30C-FDRL-B-K10-24-P65** 185983	
							C30C-FDL-G-K10-24-P65 185978	**C30C-FDRL-G-K10-24-P65** 185982	
							C30C-FDL-W-K10-24-P65 185976	**C30C-FDRL-W-K10-24-P65** 185980	

Notes
[1] ⊖ = Safety function implemented with positive opening as defined in IEC/EN 60947-5-1
[2] Contact sequence: ■ = Contact closed □ = Contact open

	Part no. Article no.	Std. pack
Mounting ring tool		
For threaded ring; can be used with cordless screwdriver.	**C22-MS** 179955	1 unit

Technical data

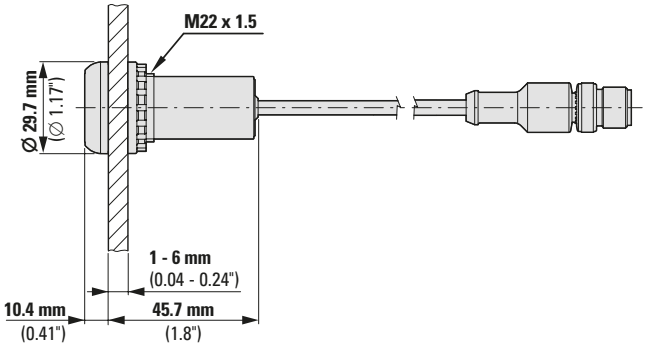
			Controlledstop/ emergency switching off buttons	(Illuminated) pushbuttons Momentary/ maintained	Selector switches	Key-operated buttons	Indicator lights
General							
Standards			IEC/EN 60947-5-5 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660	IEC/EN 60947-5-1 VDE 0660
Lifespan, mechanical	Operations	x 10^6	0.05	5/1	1	0.1	–
Operating frequency	Operations/h		300	3600	2000	100	–
Operating force		N	50	5	–	–	–
Operating torque		Nm	–	–	0.3	0.5	–
Plug tightening torque		Nm	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6	M12 = 1, M8 = 0.6
Threaded ring tightening torque		Nm	2	2	2	2	2
Climatic proofing							
Damp heat, constant			As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78	As defined in IEC 60068-2-78
Damp heat, cyclic			As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30	As defined in IEC 60068-2-30
Degree of protection			IP66, IP67, IP69K (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66 (at front) IP65 (at rear)	IP66, IP67, IP69K (at front) IP65 (at rear)
Ambient air temperature							
Open		°C	-25 - +70	-25 - +70	-25 - +70	-25 - +70	-25 - +70
Storage		°C	-30 - +80	-30 - +80	-30 - +80	-30 - +80	-30 - +80
Mounting position			Any	Any	Any	Any	Any
Mechanical shock resistance for a shock duration of 11 ms		g	> 30	> 30	> 30	> 30	> 30
Contacts							
Rated impulse withstand voltage	U_{imp}	V AC	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800	M12A/unterminated: 4000 M8: 800
Rated insulation voltage	U_i	V	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30	M12A/unterminated: 250 M8: 30
Overvoltage category/ degree of pollution			III/3	III/3	III/3	III/3	III/3
Control circuit reliability at 17 V DC/7 mA	HF						
N/O (statistically determined)			1 failure per 17 x 10^6 operations	1 failure per 17 x 10^6 operations	1 failure per 17 x 10^6 operations	1 failure per 17 x 10^6 operations	–
N/C (statistically determined)			1 failure per 0.9 x 10^6 operations	1 failure per 0.9 x 10^6 operations	1 failure per 0.9 x 10^6 operations	1 failure per 0.9 x 10^6 operations	–
Fuse	gG/gL	A	4	4	4	4	4
Conditional short-circuit current	I_q	kA	1	1	1	1	1
Switching capacity							
Rated operational current	I_e	A					
AC-15: 24 V	I_e	A	4	4	4	4	–
DC-13: 24 V	I_e	A	3	3	3	3	–
Cable characteristics							
Versions			M12A/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated	M12A/M8/ unterminated
Material			PUR	PUR	PUR	PUR	PUR
Diameter	∅	mm	4.7	4.7	4.7	4.7	4.7
Actuator travel and actuation force as per DIN EN 60947-5-1, K.5.4.1							
Positive opening sequence		mm	4.65	4.65	4.65	4.65	–
Maximum travel		mm	5.11	5.7	5.7	5.7	–
Minimum force for positive opening		N	K01 = 15/K11 = 20/K02 = 34	K01 = 15/K11 = 20/K02 = 30	K01 = 15/K11 = 20/K02 = 35	K01 = 15/K11 = 20/K02 = 36	–

Dimensions

2

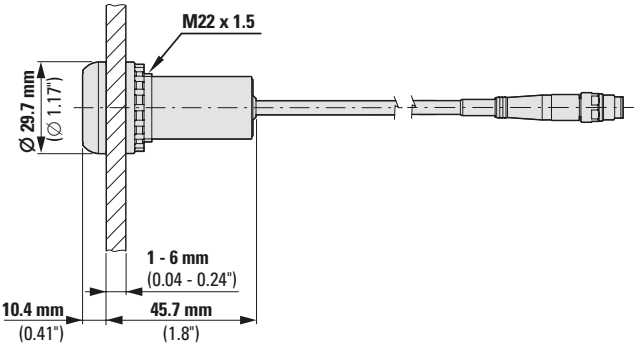
Pushbuttons, M12A

C22-D...-P1/-P3/-P5



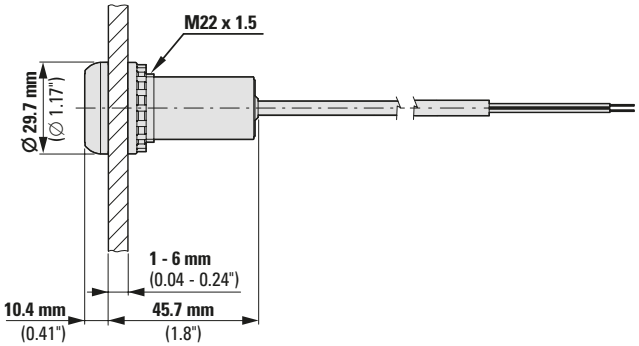
Pushbuttons, M8

C22-D...-P30/-P31/-P32



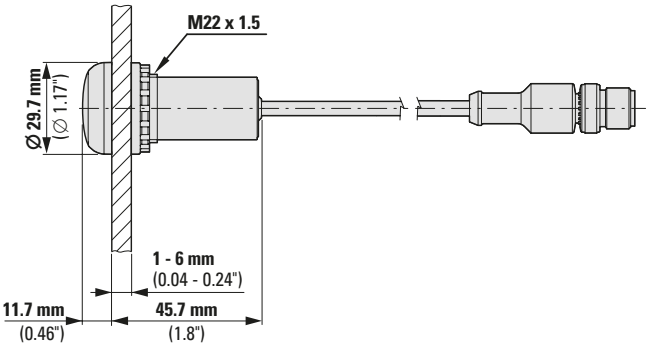
Pushbuttons, unterminated cable end

C22-D...-P/-P62/-P65



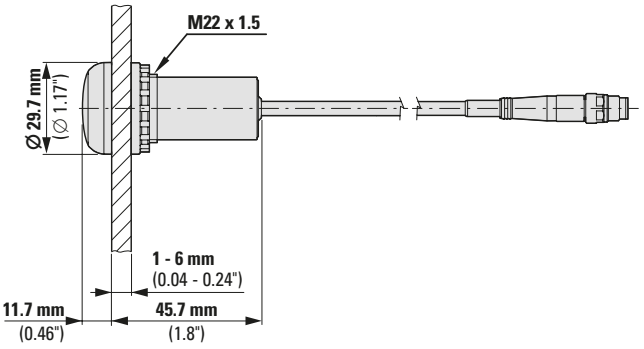
Indicator lights, M12A

C22-L-...-P1/-P3/-P5



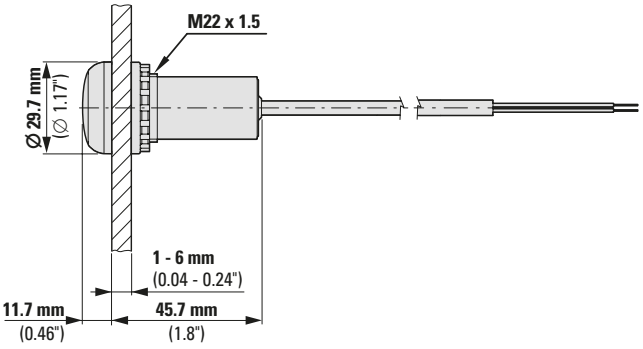
Indicator lights, M8

C22-L-...-P30/-P31/-P32



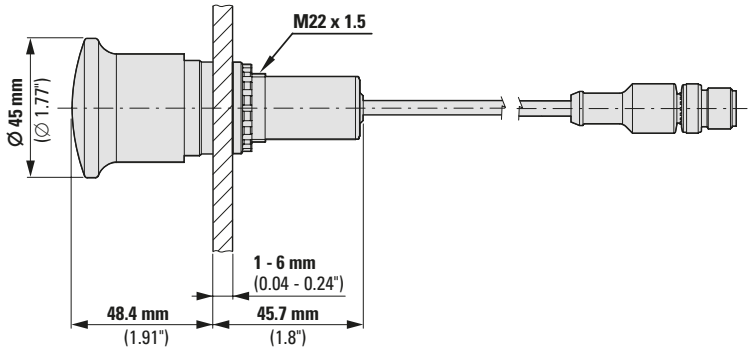
Indicator lights, unterminated cable end

C22-L-...-P62/-P65



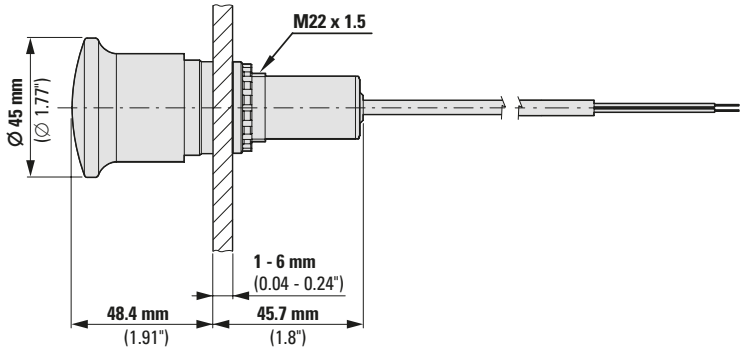
Emergency switching off, M12A

C22-PVT...-P10



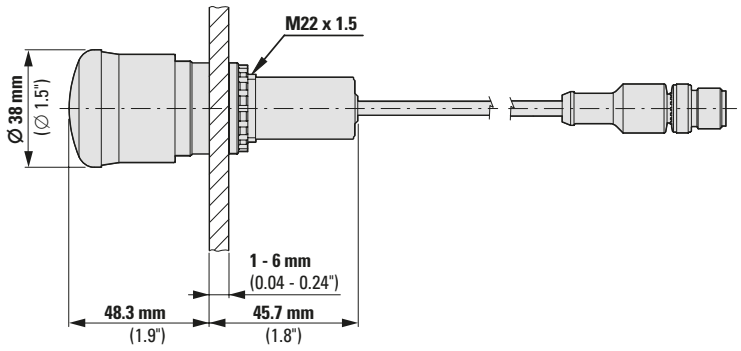
Emergency switching off, unterminated cable end

C22-PVT...-P62/-P65



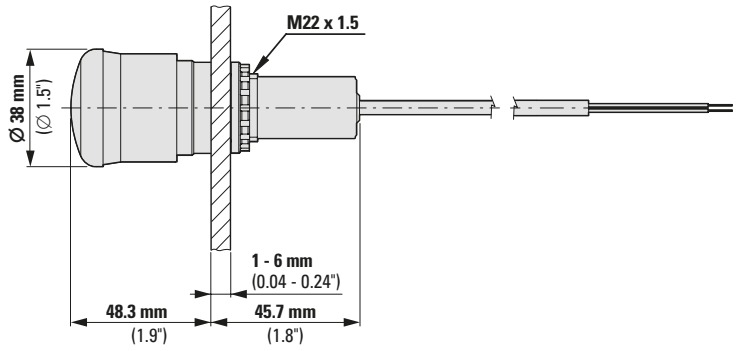
Emergency switching off, M12A

C22-PV-...-P10



Emergency switching off, unterminated cable end

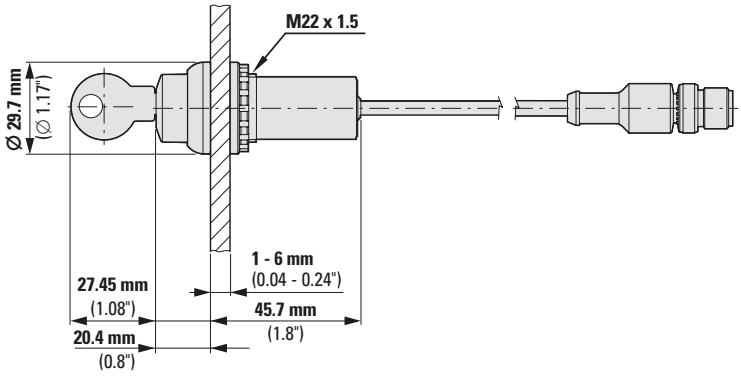
C22-PV-...-P62/-P65



2

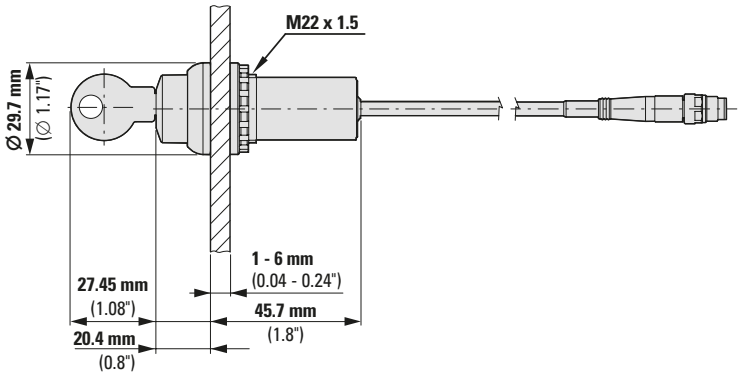
Key-operated buttons, M12A

C22-W(R)S(3)-MS1-...-P1/-P5



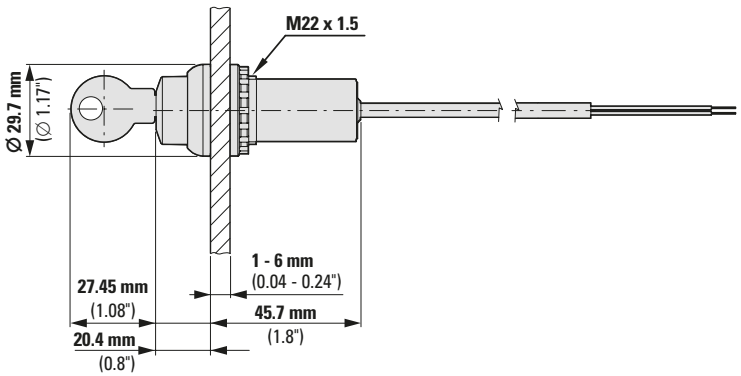
Key-operated buttons, M8

C22-W(R)S(3)-MS1-...-P30/-P32



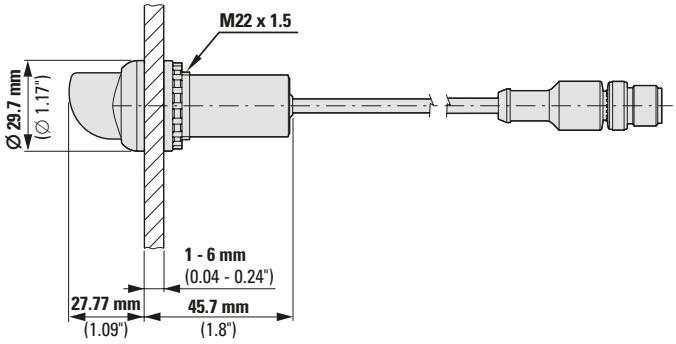
Key-operated buttons, unterminated cable end

C22-W(R)S(3)-MS1-...-P62/-P65



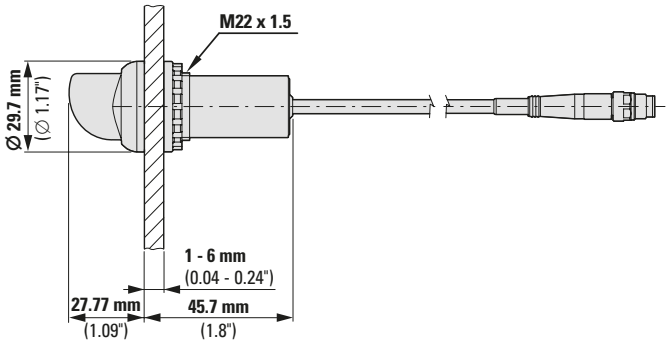
Selector switches, M12A

C22-W(R)K(3)-...-P1/-P5



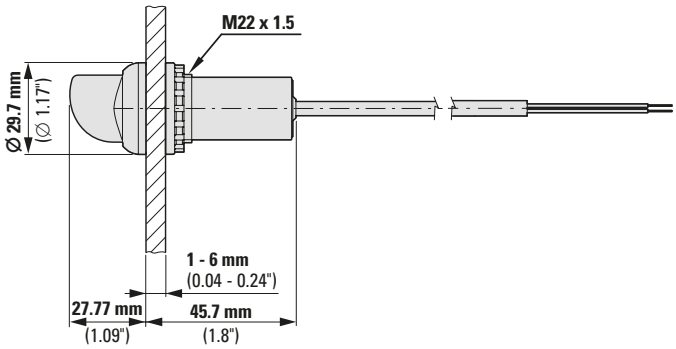
Selector switches, M8

C22-W(R)K(3)-...-P30/-P32



Selector switches, unterminated cable end

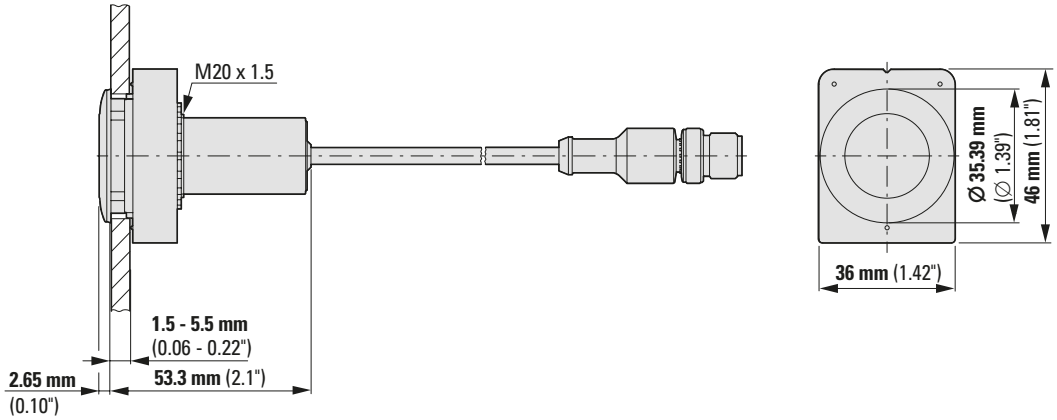
C22-W(R)K(3)-...-P62/-P65



2

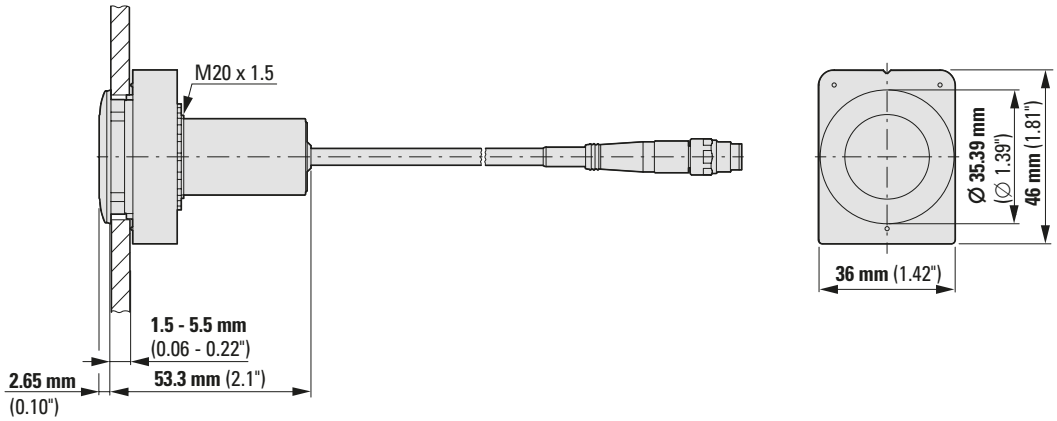
Pushbuttons, M12A

C30C-FD(R)(L)-...-P5



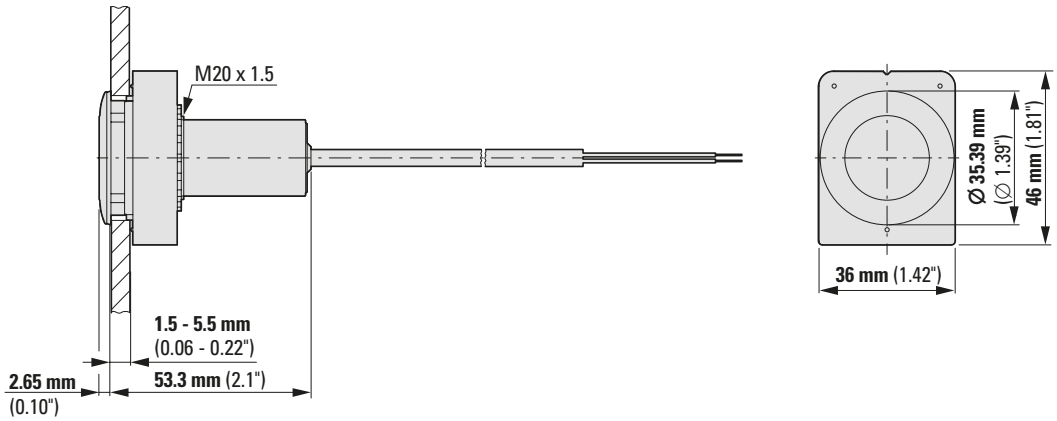
Pushbuttons, M8

C30C-FD(R)(L)-...-P32



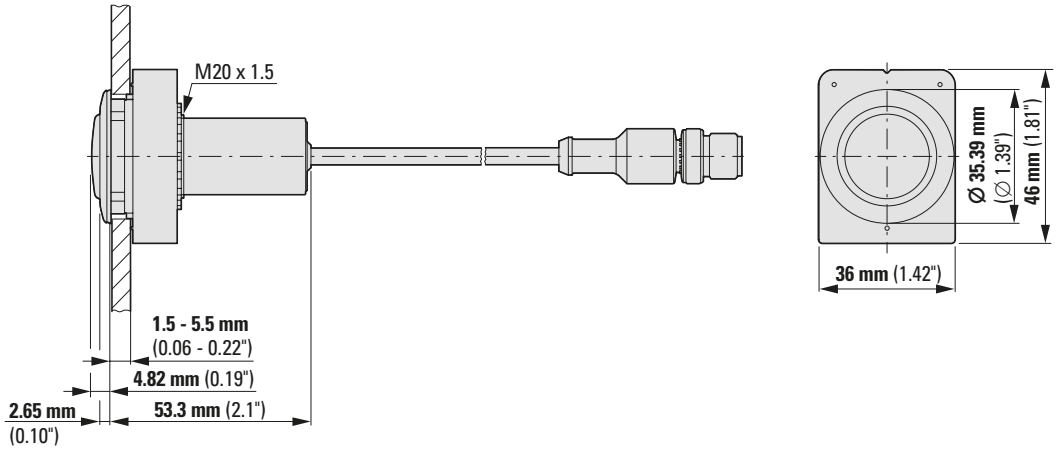
Pushbuttons, unterminated cable end

C30C-FD(R)(L)-...-P62/-65



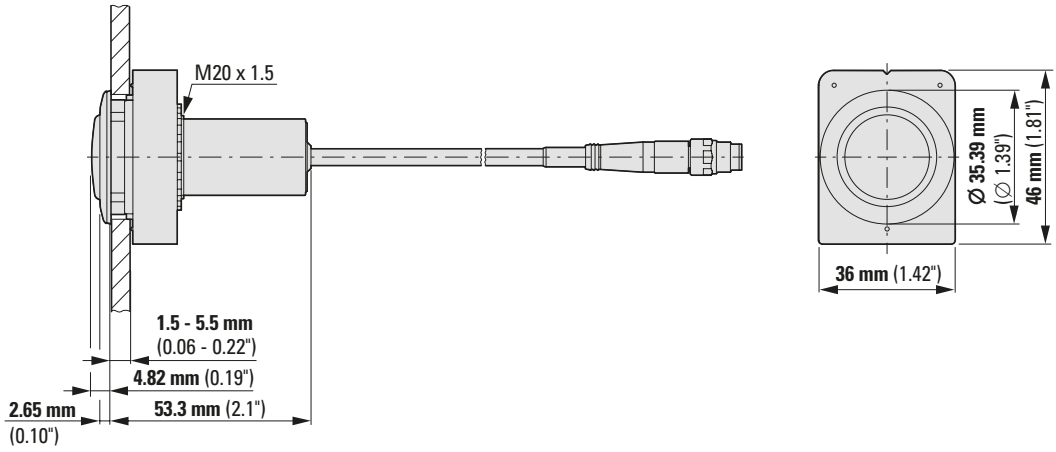
Indicator lights, M12A

C30C-FL-...-P5



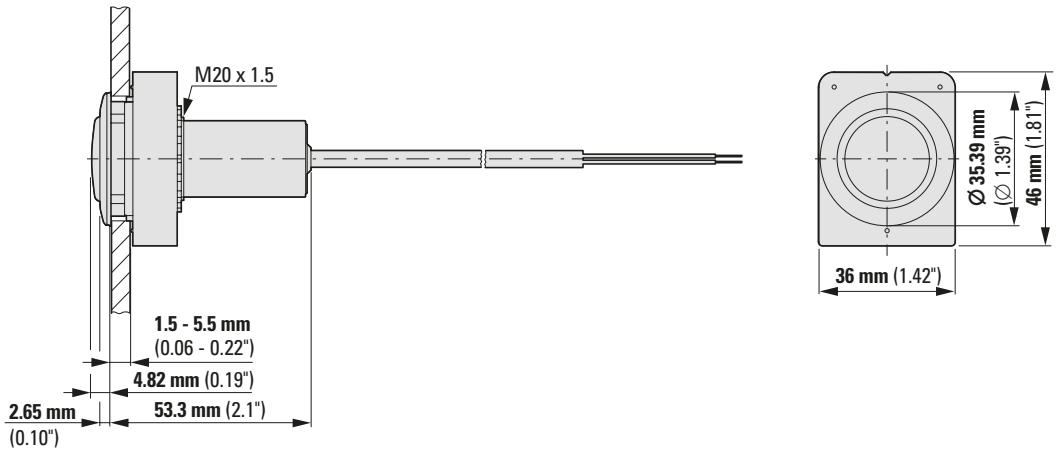
Indicator lights, M8

C30C-FL-...-P32

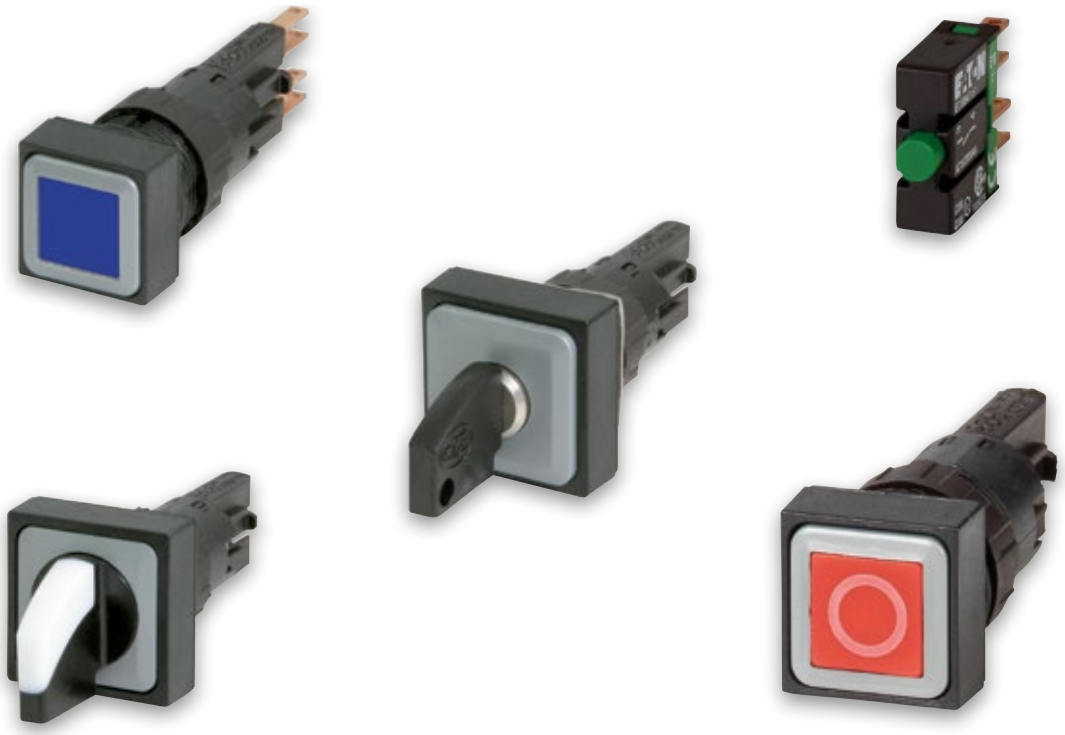


Indicator lights, unterminated cable end

C30C-FL-...-24-P62/-P65



Build it in.



The RMQ16 Series Squeezes Signaling and Control into a Tiny Space

www.eaton.eu/rmq16

Square RMQ16 pilot devices with sizes of 18 mm and 25 mm are the perfect solution for control interfaces where space is at a premium. The various front elements can be installed with a perfect fit in any of their possible four directions and, thanks to their IP65 degree of protection in the front, are the perfect choice for safe use in harsh conditions. The series is not only characterized by a wide range of indicator lights, pushbuttons, selector switches, and key-operated switches, but its label editor function within the Pushbutton-Configurator also makes it possible to get customized laser inscriptions. The LED lamps and the contact elements in the series are connected using 2.8 mm x 0.8 mm female push-on connectors.

RMQ16 emergency stop buttons are tamper-proof in compliance with ISO 13850 / EN 418 and have a pull-to-reset mechanism. They can also be used as emergency switching off buttons.

RMQ16

3.0 RMQ16 Pilot devices

3.1 System overview

System overview 124

3.2 Product selection

Pushbuttons 126
Illuminated pushbutton actuators 127
Changeover switches 128
Illuminated selector switch actuators 129
Key-operated actuators 130
Indicator lights 131
Emergency-Stop pushbuttons, Emergency-Stop labels 132
Accessories 133

3.3 Technical data

Technical data 140

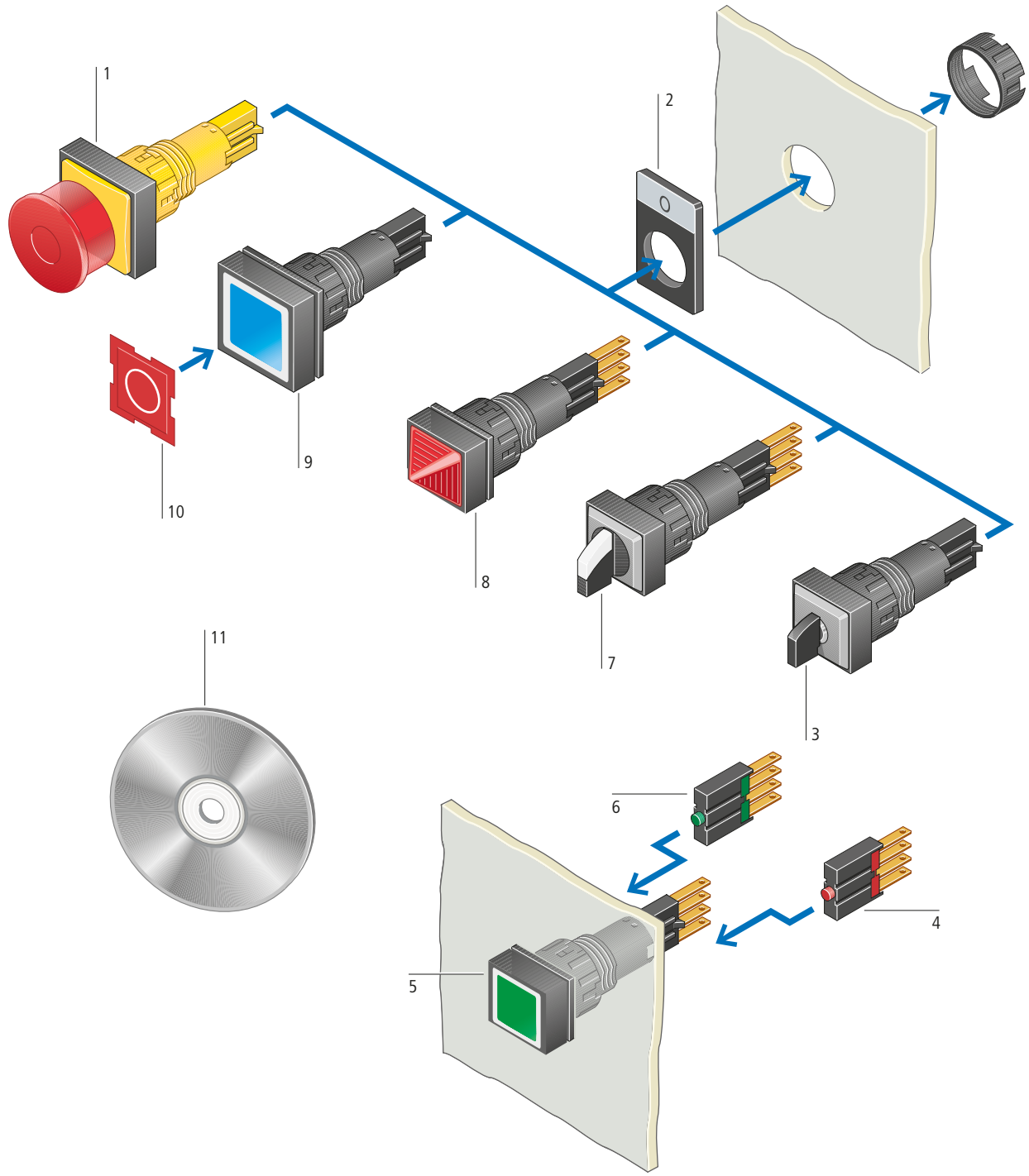
3.4 Dimensions

Dimensions 142

Product features

- Front dimension and minimum grid dimensions 18 x 18 mm or 25 x 25 mm
- Mounting hole diameter 16.2 mm to EN 50007
- Degree of protection IP65
- For switching differing potentials
- Suitable for use with electronic devices to IEC/EN 61131-2
- Technical data according to IEC/EN 60947-5-1
- Approved throughout the world

System overview



Emergency-stop pushbuttons 1

Can also be used as emergency switching off devices

Tamper-proof according to ISO 13850/EN 418

Illuminated and non-illuminated

Additional labels, inscribed or blank

European Machinery Safety Directive 2006/42/EC

→ Page 132

Label mounts 2

For insert labels

Color: light grey, black, yellow

Insert labels, inscribed or blank

→ Page 137

Key-operated actuator 3

2 and 3 positions

Switching angle 45°

Momentary and maintained

Various lock mechanisms

→ Page 130

Break contact element (red) 4

With blade terminal

Universal contacts suitable for use with electronic devices

Positive opening safety function according to IEC/EN 60947-5-1

→ Page 126

Illuminated pushbutton actuators 5

Momentary and maintained

Replaceable insert labels

Colors: white, green, red, yellow, blue custom laser inscription

→ Page 127

Make contact element (green) 6

With blade terminal

Universal contacts suitable for use with electronic devices

→ Page 126

Changeover switches 7

2 and 3 positions

Switching angle 45°momentary and maintained

Illuminated selector switch actuators with built-in lamp socket

Colors: white, green, red

→ Page 128

Indicator lights 8

Flush and conical designs

Built-in lamp socket

For filament lamps and LEDs

Colors: white, green, red, yellow, blue custom laser inscription

→ Page 131

Pushbuttons 9

Momentary and maintained

Replaceable button plates

Colors: white, green, red, yellow, blue, black

→ Page 126

Button plates/insert labels 10

Wear-resistant button plates for pushbutton actuators

Transparent insert plates for illuminated pushbuttons and indicator lights

Inscribed or blank

With standard text and symbols or with custom laser inscription

→ Page 133

Labelling with convenience 11

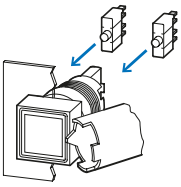
All button plates, indicator lights and additional button plates from the RMQ range can be laser inscribed with any text and symbol as required.

Download:
www.eaton.eu/config/rmq
Key word: „Pushbutton-Configurator
→ Labeleditor Function“

Product selection

3

	Color Button plate		Front dimensions 18 × 18 mm **Part no.** Article no.	Front dimensions 25 × 25 mm **Part no.** Article no.	Std. pack
	Pushbuttons, IP65				
momentary		green	**Q18D-11** 086332	**Q25D-11** 090471	10 off
		red	**Q18D-10** 086299	**Q25D-10** 090421	
		white	**Q18D-20** 054041	**Q25D-20** 054038	
		black	**Q18D-19** 054040	**Q25D-19** 054039	
		black	**Q18D-SW** 086788	**Q25D-SW** 087230	
		white	**Q18D-WS** 086752	**Q25D-WS** 086808	
		green	**Q18D-GN** 086450	**Q25D-GN** 086409	
		red	**Q18D-RT** 086713	**Q25D-RT** 086444	
		yellow	**Q18D-GE** 086417	**Q25D-GE** 086343	
		blue	**Q18D-BL** 086384	**Q25D-BL** 086328	
	–	none	**Q18D-X** 093623	**Q25D-X** 093624	
maintained		black	**Q18DR-SW** 086269	**Q25DR-SW** 088739	10 off
		white	**Q18DR-WS** 086243	**Q25DR-WS** 088701	
		green	**Q18DR-GN** 086176	**Q25DR-GN** 088531	
		red	**Q18DR-RT** 086209	**Q25DR-RT** 088627	
		yellow	**Q18DR-GE** 090482	**Q25DR-GE** 088404	
		blue	**Q18DR-BL** 090241	**Q25DR-BL** 088110	
	–	none	**Q18DR-X** 093625	**Q25DR-X** 093626	



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Contact elements

N/O Contact → 126

N/C contact → 126

Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	N/C = normally closed contact	Contact sequence	Contact diagram	Color	**Part no.** Article no.	Std. pack
Contact blocks						
Operational voltage: 5 - 250 V						
1 N/O	–	3 4	0 2.2 3.7 mm		**E10** 090351	50 off
–	1 N/C ⊖	1 2	0 1 3.7 mm		**E01** 090401	50 off

Notes

xy
xy
x = Sequence number on front element
y = Function number on contact element

	Color Lens		Front dimensions 18 × 18 mm **Part no.** Article no.	Front dimensions 25 × 25 mm **Part no.** Article no.	Std. pack
Illuminated pushbuttons, IP65					
momentary **Without filament lamp**		–	**Q18LT-WS** 089202	**Q25LT-WS** 086262	10 off
		–	**Q18LT-GN** 089067	**Q25LT-GN** 086206	
		–	**Q18LT-RT** 089776	**Q25LT-RT** 086238	
		–	**Q18LT-GE** 088808	**Q25LT-GE** 086173	
		–	**Q18LT-BL** 088764	**Q25LT-BL** 090479	
	–	Without lens	**Q18LT-X** 051745	**Q25LT-X** 051746	
momentary **With filament lamp, 24 V**		–	**Q18LT-WS/WB** 088561	**Q25LT-WS/WB** 090226	10 off
		–	**Q18LT-GN/WB** 088509	**Q25LT-GN/WB** 089190	
		–	**Q18LT-RT/WB** 088537	**Q25LT-RT/WB** 089998	
		–	**Q18LT-GE/WB** 088449	**Q25LT-GE/WB** 089137	
		–	**Q18LT-BL/WB** 088338	**Q25LT-BL/WB** 089102	
maintained **Without filament lamp**		–	**Q18LTR-WS** 088123	**Q25LTR-WS** 087232	10 off
		–	**Q18LTR-GN** 087831	**Q25LTR-GN** 086812	
		–	**Q18LTR-RT** 087918	**Q25LTR-RT** 086840	
		–	**Q18LTR-GE** 087764	**Q25LTR-GE** 086784	
		–	**Q18LTR-BL** 086813	**Q25LTR-BL** 086739	
	–	Without lens	**Q18LTR-X** 051735	**Q25LTR-X** 051736	
maintained **With filament lamp, 24 V**		–	**Q18LTR-WS/WB** 086708	**Q25LTR-WS/WB** 086447	10 off
		–	**Q18LTR-GN/WB** 086413	**Q25LTR-GN/WB** 086380	
		–	**Q18LTR-RT/WB** 086448	**Q25LTR-RT/WB** 086412	
		–	**Q18LTR-GE/WB** 086382	**Q25LTR-GE/WB** 086346	
		–	**Q18LTR-BL/WB** 086348	**Q25LTR-BL/WB** 086330	

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Contact elements

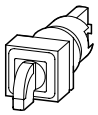
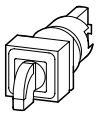
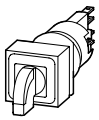
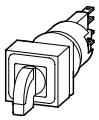
N/O Contact → 126

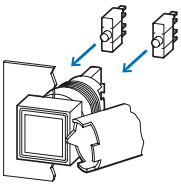
N/C contact → 126

Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1 N/O = normally open contact	N/C = normally closed contact	Contact sequence	Contact diagram	Color	**Part no.** Article no.	Std. pack
Contact elements						
Operational voltage: 5 - 250 V						
1 N/O	–	3 4	0 2.2 3.7 mm		**E10** 090351	50 off
–	1 N/C ⊖	1 2	0 1 3.7 mm		**E01** 090401	50 off

Notes

xy = x = Sequence number on front element
y = Function number on contact element

	Function: ▷ = momentary ⌊ = maintained	Color	Front dimensions 18 × 18 mm **Part no.** Article no.	Front dimensions 25 × 25 mm **Part no.** Article no.	Std. pack
Changeover switches, IP65					
Incl. anti-rotation feature VS					
Two positions 	▷ 45°	○	**Q18WK1** 036515	**Q25WK1** 036599	5 off
	⌊ 45°	○	**Q18WK1R** 036598	**Q25WK1R** 036600	
Three positions 	45° ◁⇓▷ 45°	○	**Q18WK3** 072308	**Q25WK3** 072372	5 off
	45° ⇓⌊ 45°	○	**Q18WK3R** 072309	**Q25WK3R** 072373	
	45° ⇓▷ 45°	○	**Q18WK3R1** 072310	**Q25WK3R1** 072374	
	45° ◁⇓ 45°	○	**Q18WK3R2** 072311	**Q25WK3R2** 072375	
Illuminated selector switch actuators, IP65					
With VS anti-rotation tab					
Without filament lamp **Two positions** 	▷ 45°	○	**Q18LWK1-WS** 040349	**Q25LWK1-WS** 040658	5 off
	▷ 45°	●	**Q18LWK1-RT** 039337	**Q25LWK1-RT** 040657	
	▷ 45°	●	**Q18LWK1-GN** 039336	**Q25LWK1-GN** 040656	
	⌊ 45°	○	**Q18LWK1R-WS** 040376	**Q25LWK1R-WS** 040661	
	⌊ 45°	●	**Q18LWK1R-RT** 040351	**Q25LWK1R-RT** 040660	
	⌊ 45°	●	**Q18LWK1R-GN** 040350	**Q25LWK1R-GN** 040659	
With filament lamp, 24 V **Two positions** 	▷ 45°	○	**Q18LWK1-WS/WB** 038978	**Q25LWK1-WS/WB** 040379	5 off
	▷ 45°	●	**Q18LWK1-RT/WB** 038930	**Q25LWK1-RT/WB** 040378	
	▷ 45°	●	**Q18LWK1-GN/WB** 038883	**Q25LWK1-GN/WB** 040377	
	⌊ 45°	○	**Q18LWK1R-WS/WB** 039335	**Q25LWK1R-WS/WB** 040476	
	⌊ 45°	●	**Q18LWK1R-RT/WB** 039248	**Q25LWK1R-RT/WB** 040381	
	⌊ 45°	●	**Q18LWK1R-GN/WB** 039247	**Q25LWK1R-GN/WB** 040380	



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Contact elements	
N/O Contact	→ 126
N/C contact	→ 126

Front dimensions 18 × 18 mm

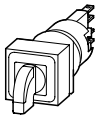
Front dimensions 25 × 25 mm

Function:	Color	Part no. Article no.	Part no. Article no.	Std. pack
= momentary = maintained				

Illuminated selector switch actuators, IP65

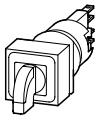
With VS anti-rotation tab

Without filament lamp
Three positions

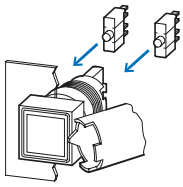


45° 45°	○	**Q18LWK3-WS** 072322	**Q25LWK3-WS** 072358	5 off
45° 45°	●	**Q18LWK3-RT** 072323	**Q25LWK3-RT** 072359	
45° 45°	●	**Q18LWK3-GN** 072324	**Q25LWK3-GN** 072360	
45° 45°	○	**Q18LWK3R-WS** 072325	**Q25LWK3R-WS** 072361	
45° 45°	●	**Q18LWK3R-RT** 072326	**Q25LWK3R-RT** 072362	
45° 45°	●	**Q18LWK3R-GN** 072327	**Q25LWK3R-GN** 072363	
45° 45°	○	**Q18LWK3R1-WS** 072328	**Q25LWK3R1-WS** 072364	
45° 45°	●	**Q18LWK3R1-RT** 072329	**Q25LWK3R1-RT** 072365	
45° 45°	●	**Q18LWK3R1-GN** 072330	**Q25LWK3R1-GN** 072366	
45° 45°	○	**Q18LWK3R2-WS** 072331	**Q25LWK3R2-WS** 072367	
45° 45°	●	**Q18LWK3R2-RT** 072332	**Q25LWK3R2-RT** 072368	
45° 45°	●	**Q18LWK3R2-GN** 072333	**Q25LWK3R2-GN** 072369	

With filament lamp, 24 V
Three positions



45° 45°	○	**Q18LWK3-WS/WB** 072334	**Q25LWK3-WS/WB** 072346	5 off
45° 45°	●	**Q18LWK3-RT/WB** 072335	**Q25LWK3-RT/WB** 072347	
45° 45°	●	**Q18LWK3-GN/WB** 072336	**Q25LWK3-GN/WB** 072348	
45° 45°	○	**Q18LWK3R-WS/WB** 072337	**Q25LWK3R-WS/WB** 072349	
45° 45°	●	**Q18LWK3R-RT/WB** 072338	**Q25LWK3R-RT/WB** 072350	
45° 45°	●	**Q18LWK3R-GN/WB** 072339	**Q25LWK3R-GN/WB** 072351	
45° 45°	○	**Q18LWK3R1-WS/WB** 072340	**Q25LWK3R1-WS/WB** 072352	
45° 45°	●	**Q18LWK3R1-RT/WB** 072341	**Q25LWK3R1-RT/WB** 072353	
45° 45°	●	**Q18LWK3R1-GN/WB** 072342	**Q25LWK3R1-GN/WB** 072354	
45° 45°	○	**Q18LWK3R2-WS/WB** 072343	**Q25LWK3R2-WS/WB** 072355	
45° 45°	●	**Q18LWK3R2-RT/WB** 072344	**Q25LWK3R2-RT/WB** 072356	
45° 45°	●	**Q18LWK3R2-GN/WB** 072345	**Q25LWK3R2-GN/WB** 072357	



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Contact elements

N/O Contact → 126

N/C contact → 126

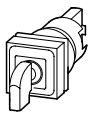
3

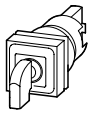
= momentary
= maintained

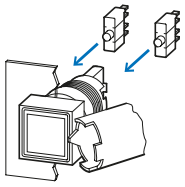
IP65, key-operated actuators

With 1 key and VS anti-rotation tab

Function:	Key withdrawable in position			Color	Front dimensions 18 × 18 mm **Part no.** Article no.	Front dimensions 25 × 25 mm **Part no.** Article no.	Std. pack
Two positions							
45°	–	0	–	●	**Q18S1** 038806	**Q25S1** 038773	5 off
45°	I	0	–	●	**Q18S1R** 038805	**Q25S1R** 038772	
45°	–	0	–	●	**Q18S1R-A1** 072312	**Q25S1R-A1** 072376	
45°	–	0	–	●	**Q18S1-GN** 062148	**Q25S1-GN** 062150	
45°	I	0	–	●	**Q18S1R-GN** 062151	**Q25S1R-GN** 062108	
45°	–	0	–	●	**Q18S1-RT** 046841	**Q25S1-RT** 046843	
45°	I	0	–	●	**Q18S1R-RT** 046837	**Q25S1R-RT** 046839	
45°	–	0	–	○	**Q18S1-WS** 046849	**Q25S1-WS** 046851	
45°	I	0	–	○	**Q18S1R-WS** 046845	**Q25S1R-WS** 046847	
45°	–	0	–	●	**Q18S1-BL** 045959	**Q25S1-BL** 046835	
45°	I	0	–	●	**Q18S1R-BL** 062814	**Q25S1R-BL** 045502	
Three positions							
45° 45°	–	0	–	●	**Q18S3** 072313	**Q25S3** 072377	5 off
45° 45°	I	0	II	●	**Q18S3R** 072314	**Q25S3R** 072378	
45° 45°	–	0	–	●	**Q18S3R-A1** 072315	**Q25S3R-A1** 072379	
45° 45°	I	0	–	●	**Q18S3R-A2** 072316	**Q25S3R-A2** 072380	
45° 45°	–	0	II	●	**Q18S3R-A3** 072317	**Q25S3R-A3** 072381	
45° 45°	I	0	–	●	**Q18S3R-A4** 072318	**Q25S3R-A4** 072382	
45° 45°	–	0	–	●	**Q18S3R-A5** 072319	**Q25S3R-A5** 072383	
45° 45°	–	0	II	●	**Q18S3R-A6** 072320	**Q25S3R-A6** 072384	
45° 45°	–	0	–	●	**Q18S3R-A7** 072321	**Q25S3R-A7** 072385	
45° 45°	–	0	–	●	**Q18S3-GN** 062149	**Q25S3-GN** 062153	
45° 45°	I	0	II	●	**Q18S3R-GN** 062152	**Q25S3R-GN** 062147	
45° 45°	–	0	–	●	**Q18S3-RT** 046842	**Q25S3-RT** 046844	
45° 45°	I	0	II	●	**Q18S3R-RT** 046838	**Q25S3R-RT** 046840	
45° 45°	–	0	–	○	**Q18S3-WS** 046850	**Q25S3-WS** 046852	
45° 45°	I	0	II	○	**Q18S3R-WS** 046846	**Q25S3R-WS** 046848	
45° 45°	–	0	–	●	**Q18S3-BL** 046368	**Q25S3-BL** 046836	
45° 45°	I	0	II	●	**Q18S3R-BL** 064430	**Q25S3R-BL** 045646	







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Contact elements

N/O Contact → 126

N/C contact → 126

Notes For each color there is a corresponding key.
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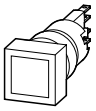
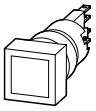
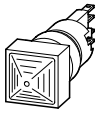
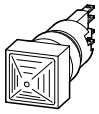
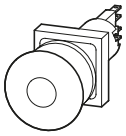
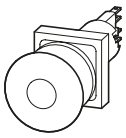
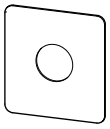
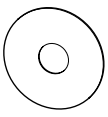
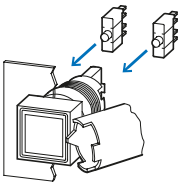
	Color	Front dimensions 18 × 18 mm **Part no.** Article no.	Front dimensions 25 × 25 mm **Part no.** Article no.	Std. pack
	Indicator lights, IP65			
flush **Without filament lamp** 		**Q18LF-WS** 088406	**Q25LF-WS** 090228	10 off
		Q18LF-GN 088337	**Q25LF-GN** 090000	
		Q18LF-RT 088387	**Q25LF-RT** 090198	
		Q18LF-GE 088303	**Q25LF-GE** 089252	
		Q18LF-BL 088270	**Q25LF-BL** 089229	
flush **Without lens**	–	**Q18LX** 051739	**Q25LX** 051740	10 off
flush **With filament lamp, 24 V** 		**Q18LF-WS/WB** 088059	**Q25LF-WS/WB** 089151	10 off
		Q18LF-GN/WB 087947	**Q25LF-GN/WB** 088828	
		Q18LF-RT/WB 088001	**Q25LF-RT/WB** 089104	
		Q18LF-GE/WB 087915	**Q25LF-GE/WB** 088798	
		Q18LF-BL/WB 087860	**Q25LF-BL/WB** 088761	
Conical **Without filament lamp** 		**Q18LH-WS** 088705	**Q25LH-WS** 086263	10 off
		Q18LH-GN 088629	**Q25LH-GN** 086207	
		Q18LH-RT 088655	**Q25LH-RT** 086241	
		Q18LH-GE 088585	**Q25LH-GE** 090481	
		Q18LH-BL 088560	**Q25LH-BL** 090428	
Conical **With filament lamp, 24 V** 		**Q18LH-WS/WB** 088535	**Q25LH-WS/WB** 090405	10 off
		Q18LH-GN/WB 088483	**Q25LH-GN/WB** 090312	
		Q18LH-RT/WB 088507	**Q25LH-RT/WB** 090354	
		Q18LH-GE/WB 088448	**Q25LH-GE/WB** 090285	
		Q18LH-BL/WB 088424	**Q25LH-BL/WB** 090240	

3

		Color	Degree of protection	Part no. Article no.	Std. pack
				Front dimensions 25 × 25 mm	
Emergency-stop pushbuttons					
Tamper-proof according to ISO 13850, EN 418 Pushbutton remains in pushed position; released by pulling Can also be used as emergency-stop key-release mushroom					
Non-illuminated			IP65	**Q25PV** 072370	5 off
Illuminated with built-in multiple LED, 24 V DC, I_e = 15 mA Positive pole at X1 No bulb replacement required.			IP65	**Q25LPV** 072371	2 off
Emergency-stop pushbuttons					
Overload-protected to ISO 13850, EN 418 Pushbutton remains in pushed position; released by pulling					
Non-illuminated			IP65	**Q25PV-S** 257063	5 off
Illuminated with built-in multiple LED, 24 V DC, I_e = 15 mA Positive pole at X1 No bulb replacement required.			IP65	**Q25LPV-S** 257064	5 off
Emergency-stop labels					
Yellow, black lettering		Square 50 × 50 mm de, en, fr, it	IP65	**SQT11** 121375	5 off
		Round ø 60 mm de, en, fr, it	IP65	**SRT11** 121374	5 off
Emergency-stop labels					
Yellow, black lettering		Square 50 × 50 mm de, en, fr, it	IP65	**SQT1** 058874	5 off
		Round ø 60 mm de, en, fr, it	IP65	**SRT1** 058873	5 off
Emergency-stop labels					
Blank, yellow Not suitable for engraving		Square 50 × 50 mm	IP65	**SQ-GE** 063263	5 off
		Round ø 60 mm	IP65	**SR-GE** 063264	5 off



Accessories **Page**

Assembly aids and accessories → 138

Contact elements

N/O Contact → 126

N/C contact → 126

Inscription	Symbol	Button plates for pushbutton actuators 18 x 18 mm **Part no.** Article no.	25 x 25 mm **Part no.** Article no.	Std. pack
Marking plates				
–		**01TQ18** 086816	**01TQ25** 091121	20 off
–		**02TQ18** 086859	**02TQ25** 091149	
–		**03TQ18** 087766	**03TQ25** 091184	
–		**04TQ18** 087834	**04TQ25** 091442	
–		**05TQ18** 087867	**05TQ25** 091471	
–		**06TQ18** 087920	**06TQ25** 091506	
With customized inscription via Labeleditor → Notes		**XQ18D-*-*[1)]** 285286	**XQ25D-*-*[1)]** 285287	1 off
OFF		**10TQ18** 087951	**10TQ25** 091536	20 off
STOP or OFF		**19TQ18** 054510	**19TQ25** 054508	
ON		**11TQ18** 088007	**11TQ25** 091562	
START or ON		**20TQ18** 054509	**20TQ25** 054507	
START or ON		**21TQ18** 088061	**21TQ25** 091586	
Direction of movement		**32TQ18** 088125	**32TQ25** 091618	
Direction of movement		**36TQ18** 088275	**36TQ25** 092592	
Electr. voltage		**34TQ18** 095386	**34TQ25** 092563	
Increase		**37TQ18** 088315	**37TQ25** 092608	
Decrease		**38TQ18** 088340	**38TQ25** 092645	
Manual operation		**40TQ18** 088389	**40TQ25** 092709	
Automatic		**41TQ18** 088412	**41TQ25** 092774	
ON–OFF, momentary		**43TQ18** 088426	**43TQ25** 092791	
Unlock		**52TQ18** 088452	**52TQ25** 092825	
Lock		**53TQ18** 088487	**53TQ25** 092874	
Unclamp		**54TQ18** 088512	**54TQ25** 093013	
Clamp		**55TQ18** 088545	**55TQ25** 093032	
Liquid START			**921TQ25** 047426	
Liquid STOP		**63TQ18** 088566	**63TQ25** 093060	
Klaxon		**66TQ18** 088590	**66TQ25** 093092	
Spindle START			**811TQ25** 053898	
Spindle STOP			**814TQ25** 047425	
ON–OFF, maintained		**899TQ18** 089232	**899TQ25** 093063	

Notes

[1)] When ordering, complete part no. XQ18D-*-* or XQ25D-*-*:
1. Wildcard * ≙ color, e.g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)
2. Wildcard * ≙ file name generated by Labeleditor → Engineering, Page 74

Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

3

Inscription	Symbol	Button plates for pushbutton actuators 18 x 18 mm **Part no.** Article no.	25 x 25 mm **Part no.** Article no.	Std. pack
Marking plates				
Direction of movement		**911TQ18** 089778	**911TQ25** 093100	20 off
Direction of movement		**912TQ18** 090181	**912TQ25** 093135	
	0	**80TQ18** 088631	**80TQ25** 093134	
	1	**81TQ18** 088663	**81TQ25** 093158	
	2	**82TQ18** 088715	**82TQ25** 093178	
	3	**83TQ18** 088744	**83TQ25** 093197	
	4	**84TQ18** 088766	**84TQ25** 093224	
	5	**85TQ18** 088811	**85TQ25** 093241	
	6	**86TQ18** 089069	**86TQ25** 093257	
	7	**87TQ18** 089107	**87TQ25** 093288	
	8	**88TQ18** 089165	**88TQ25** 093305	
	9	**89TQ18** 089205	**89TQ25** 093329	
STOP			**110TQ25** 093363	
STOP			**112TQ25** 063748	
ARRET			**310TQ25** 091446	
START			**111TQ25** 093399	
START			**122TQ25** 063746	
MARCHE			**311TQ25** 091475	
AUS			**117TQ25** 093434	
AUS			**113TQ25** 063749	
OFF			**217TQ25** 090911	
ARRET			**317TQ25** 091508	
EIN			**121TQ25** 093461	
EIN			**123TQ25** 063747	
ON			**221TQ25** 090934	
MARCHE			**321TQ25** 091563	

Notes Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

Inscription	Symbol	Button plates for pushbutton actuators 25 x 25 mm **Part no.** Article no.	Std. pack
Marking plates			
LINKS		**134TQ25** 093494	20 off
LEFT		**234TQ25** 090987	
GAUCHE		**334TQ25** 092567	
RECHTS		**135TQ25** 093527	
RIGHT		**235TQ25** 091009	
DROITE		**335TQ25** 092594	
ZU		**153TQ25** 090632	
CLOSE		**253TQ25** 091089	
FERME		**353TQ25** 092609	
AUF		**172TQ25** 090732	
UP		**272TQ25** 091124	
MONTEE		**372TQ25** 092711	
AB		**173TQ25** 090822	
DOWN		**273TQ25** 091152	
DESCENTE		**373TQ25** 092775	
RESET		**287TQ25** 091185	
VOR		**190TQ25** 090852	
ZURÜCK		**191TQ25** 090866	

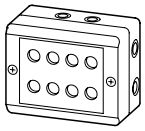
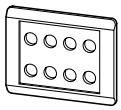
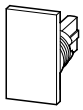
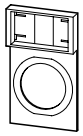
Notes Lenses for illuminated pushbutton actuators, indicator lights, laser inscription → Page 139

3

Inscription		Label mounts Q25T... with insert label **Part no.** Article no.	Insert plates for Q25T...-X label mount **Part no.** Article no.	Std. pack
Marking plates				
Blank, black, suitable for engraving		**Q25TS-01** 046184	**01SQ25** 037986	20 off
Blank, aluminium-colored, suitable for engraving		**Q25TS-02** 046185	**02SQ25** 038074	
Blank, yellow, not suitable for engraving		**Q25TGE-05** 063259	**05SQ25** 063201	
AUS		**Q25TS-117** 046194		
EIN		**Q25TS-121** 046196		
ON		**Q25TS-221** 046197		
STOP		**Q25TS-110** 046190	**110SQ25** 038507	
START		**Q25TS-111** 046192		
Störung		**Q25TS-150** 046198		
FAULT		**Q25TS-250** 046199		
DÉFAUT		**Q25TS-386** 072306	**386SQ25** 072302	
Betrieb		**Q25TS-183** 046201		
EN SERVICE		**Q25TS-383** 046204		
HAND 0 AUTO		**Q25TS-197** 072305		
MAN. 0 AUTO		**Q25TS-397** 072307		
NOT-AUS		**Q25TGE-199** 063260	**199SQ25** 063200	
EMERGENCY STOP		**Q25TGE-299** 063261	**299SQ25** 063199	
RUN			**283SQ25** 038767	
EN SERVICE			**383SQ25** 038771	
ARRET D'URGENCE			**399SQ25** 048638	
–	0	**Q25TS-10** 046186	**10SQ25** 038268	
–	I	**Q25TS-11** 046187		
–	→	**Q25TS-32** 046188		
–	0 I	**Q25TS-90** 046189	**90SQ25** 038271	
–	I 0 II	**Q25TS-93** 072304	**93SQ25** 072300	
With customized inscription via Labeleditor → Notes	–	**XQ25TS-*-*** 109773		1 off

Notes

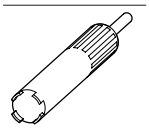
When ordering, complete part no. XQ25TS-*-*:
1. Wildcard * ≙ color: AL = aluminum, B = black, Y = yellow
2. Wildcard * ≙ file extension

	Color	RAL number	Part no. Article no.	Std. pack
Surface mounting enclosure, IP65[1]				
For conventional wiring with moulded cover fixing screws Enclosure base: black (RAL 9005) 8 mounting locations Knockout cable entry Bottom: 4 x M20 Sides: 7 x M20				
		RAL 7035	**I8** 046299	2 off
Flush mounting plate, IP65[1]				
For conventional wiring 8 mounting locations				
		RAL 7035	**E8** 054423	1 off
		RAL 9005	**E8-SW** 065212	1 off
Customized complete unit				
Parameterizable To order use form FO315 → Data sheet in Online Catalog				
	–		**M16-COMBINATION** 2010762	1 off
Blanking plates, IP65				
For closing off of spare mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 × 37.5 mm				
		RAL 9005	**Q25AS** 036602	10 off
		RAL 7035	**Q25AGR** 048641	
		RAL 1004	**Q25AGE** 048640	
Label mounts without insert label				
For additional marking of mounting locations in surface mounting enclosures or flush mounting plates in grid dimension 25 × 37.5 mm Suitable insert labels → Page 136				
		RAL 9005	**Q25TS-X** 036601	20 off
		RAL 7035	**Q25TGR-X** 063257	
		RAL 1004	**Q25TGE-X** 063258	

Notes

[1] Unused mounting locations must be closed off with blanking plates.
Each used mounting location must be fitted with a label mount.

3

	Type	Lifespan EN 60064, t_a = +25 °C t_{avge} (AC) h	Color	Part no. Article no.	Std. pack
	Filament lamp W 2 × 4.6 d				
	6 V/1.0 W	10000	–	**WBGL6** 090223	50 off
	12 V/1.0 W	15000	–	**WBGL12** 089968	50 off
	24 - 28 V/1.0 W	7000	–	**WBGL24** 089247	100 off
For AC/DC	**Multiple LEDs W 2 × 4.6 d**				
	6 V/45 mA	60000	●	**WBLED-GE6** 055711	10 off
			●	**WBLED-GN6** 055712	
			●	**WBLED-RT6** 055713	
	12 V/24 mA	60000	●	**WBLED-GE12** 055714	
			●	**WBLED-GN12** 055715	
			●	**WBLED-RT12** 055716	
	Single chip LED W 2 × 4.6 d				
	Positive pole to X1, Integral suppressor circuit up to 1000 V				
	18 - 30 V DC/7 - 12.5 mA	100000	●	**LEDWB-Y** 208724	10 off
			●	**LEDWB-G** 208725	
			●	**LEDWB-R** 208726	
			○	**LEDWB-W** 208728	
			●	**LEDWB-B** 208727	
	**Mounting ring tool**				
	For fixing nut with bulb extractor				
	–	–	–	**R16-MS** 090297	10 off
	Insulated ferrule				
	For fast-on connector 2.8 × 0.8 mm, plug-in type from front U_e > 50 V AC, U_e > 120 V DC				
	–	–	–	**ISH2.8** 090267	100 off
	Fast-on connector				
	2.8 × 0.8 mm for conductor cross-section 0.5 - 1 mm²				
	–	–	–	**LT306.022.3** 058863	100 off
	Blanking plugs, IP65				
	For closing off of spare mounting locations				
	For grid dimension 18 × 18 mm	–	●	**Q18BS** 037985	10 off
	For grid dimension 25 × 25 mm	–	●	**Q25BS** 036976	10 off
	Anti-rotation tab				
	Guard-ring as anti-rotation tab for all RMQ16 buttons				
	–	–	–	**VS** 046301	50 off

For use with	Color	Part no. Article no.	Std. pack
Screw adapter, IP20			
Conductor cross-sections 1 × 1.5 mm², 2 × 0.75 mm²			
For N/C contacts		**SRA01** 028101	20 off
For N/O contacts		**SRA10** 028100	
For lamp socket		**SRAL** 028099	
Individual key			
Standard lock mechanism, black, each color corresponds to a specific lock mechanism			
–		**ES16** 065190	10 off
–		**ES16-GN** 030742	5 off
–		**ES16-RT** 030741	
–		**ES16-WS** 030743	
–		**ES16-BL** 030744	
Transparent insert plates			
For better light diffusion			
For grid dimension 18 × 18 mm		**01LQ18** 090231	20 off
For grid dimension 25 × 25 mm		**01LQ25** 093180	
Lenses for illuminated pushbutton			
With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	–	**XQ18LT-*-*** 285288	1 off
For grid dimension 25 × 25 mm	–	**XQ25LT-*-*** 285289	
Lenses for indicator lights, flush			
With customized inscription to order via Labeleditor → Notes			
For grid dimension 18 × 18 mm	–	**XQ18LF-*-*** 285310	1 off
For grid dimension 25 × 25 mm	–	**XQ25LF-*-*** 285311	
Insert labels for label mounts			
For laser inscription with Labeleditor → Notes			
For Q25TS-...	–	**XQ25TS-*-*** 109773	1 off

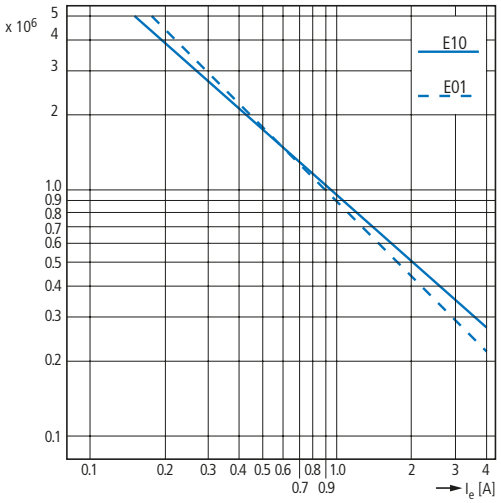
Notes

When ordering, complete part no. XQ...-*-*:
1. Wildcard * ≙ color, e. g.: -R (red), -G (green), -B (blue), -W (white), -Y (yellow), -S (black)
2. Wildcard * ≙ file name generated by Labeleditor → Engineering, Page 74

Technical data

				Contact elements	Illuminated push-button actuators (maintained)	Illuminated selector switch actuators	Indicator lights
General							
Standards				IEC/EN 60947, VDE 0660			
Lifespan, mechanical	Operations	x 10^6		> 100	> 30	> 3	–
Operating frequency	Operations/h			≦ 3600	≦ 1800	≦ 1800	–
Operating force		N		3	4	–	–
Operating torque		Nm		–	–	≦ 0.2	–
Degree of protection, IEC/EN 60529				IP20 with ISH2.8	IP65	IP65	IP65
Climatic proofing				Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient air temperature							
Open		°C		-25 - +60	-25 - +60	-25 - +60	-25 - +60
Enclosed		°C		-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position				any	any	any	any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g		> 40	> 40	> 40	> 40
Terminal capacity		mm^2		0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal				2.8 × 0.8 mm to DIN 46244			
Fast-on connector				2.8 × 0.8 mm to DIN 46247 and IEC 60760			
Contacts							
Rated impulse withstand voltage	U_{imp}	V AC		4000	800	800	800
Rated insulation voltage	U_i	V		250	250	250	250
Overvoltage category/degree of pollution				III/3	III/3	III/3	III/3
Rated operating voltage	U_e	V AC		250	24	24	24
Control circuit reliability							
At 24 V DC/5 mA	H_F	Fault probability		< 10^{-7} (i.e. 1 failure to 10^7 operations)			–
At 5 V DC/1 mA	H_F	Fault probability		< 5 x 10^{-6} (i.e. 1 failure to 5 x 10^6 operations)			–
Use of ISH insulated ferrule 2.8				On > 24 V AC/DC recommended On > 50 V AC or 120 V DC mandatory, also on unoccupied blade terminals			
Max. short-circuit protective device							
fuseless		Part no.		FAZ-B6/1	–	–	–
Fuse	gG/gL	A		10	–	–	–
Switching capacity							
Rated operational current							
AC-15							
24 V	I_e	A		4	–	–	–
48 V	I_e	A		4	–	–	–
110 V	I_e	A		4	–	–	–
230 V	I_e	A		4	–	–	–
DC-13							
24 V	I_e	A		3	–	–	–
42 V	I_e	A		1	–	–	–
60 V	I_e	A		0.8	–	–	–
110 V	I_e	A		0.5	–	–	–
220 V	I_e	A		0.2	–	–	–

			Pushbuttons (maintained)	Changeover switches	Key-operated actuator	Emergency-stop pushbuttons
General						
Standards			IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10^6	> 3	> 3	> 3	> 0.1
Operating frequency	Operations/h		≦ 1800	≦ 1800	≦ 1800	≦ 600
Operating force		N	4	–	–	25
Operating torque		Nm	–	0.2	0.4	–
Degree of protection, IEC/EN 60529			IP65	IP65	IP65	IP65
Climatic proofing			Damp heat, constant as per IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30			
Ambient air temperature						
Open		°C	-25 - +60	-25 - +60	-25 - +60	-25 - +60
Enclosed		°C	-25 - +40	-25 - +40	-25 - +40	-25 - +40
Mounting position			any	any	any	any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 40	> 40	> 40	> 40
Terminal capacity		mm^2	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Blade terminal			2.8 × 0.8 mm to DIN 46244			
Fast-on connector			2.8 × 0.8 mm to DIN 46247 and IEC 60760			

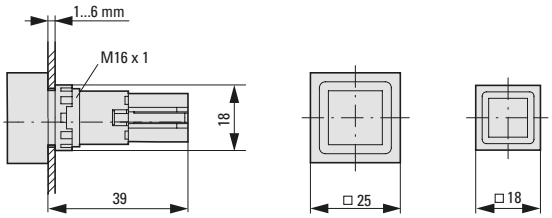


Lifespan, electrical AC-15 according to IEC/EN 60947-5-1 at 230 V;
I_e = rated operational current

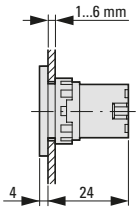
Dimensions

Actuating and indicator elements

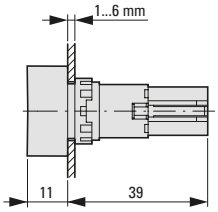
Square style



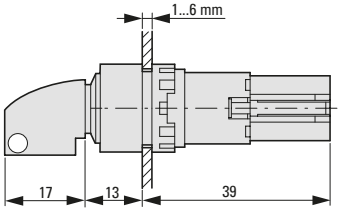
Q...BS



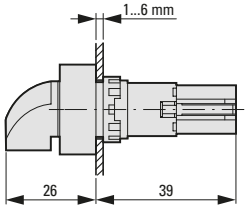
Q...D-...
Q...DR-...



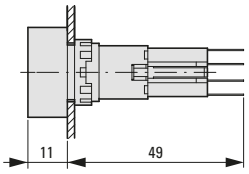
Q...S...



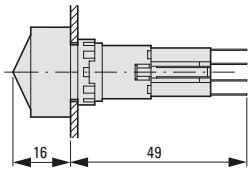
Q...WK...



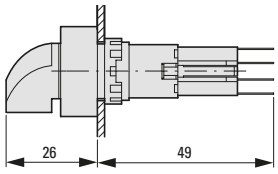
Q...LT-...
Q...LTR-...
Q...LF-...



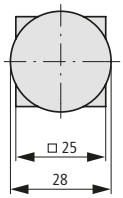
Q...LH-...

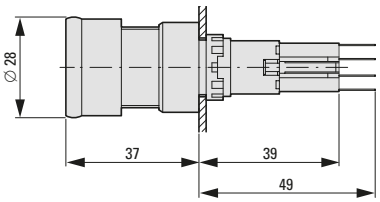


Q...LWK...



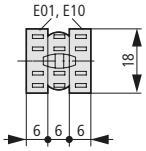
Q25PV...
Q25LPV...

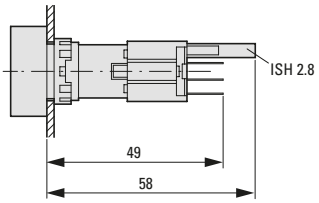




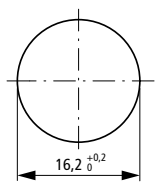
Front mount

Q18, Q25, E89, SRA, VS, M16



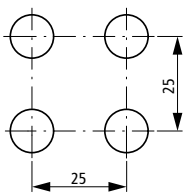


Drilling dimensions



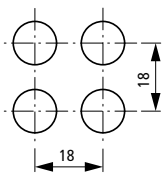
Grid dimension to IEC/EN 60947

Q25

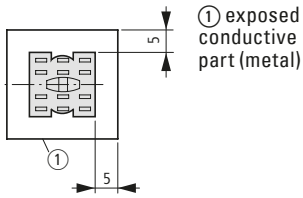


Minimum grid dimension

Q18

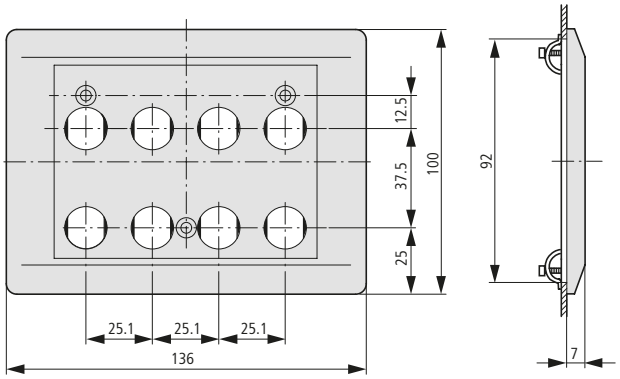


Mounting distance



Flush mounting plate

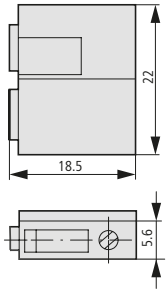
E8...



Size of cutout: 92 mm × 94 mm

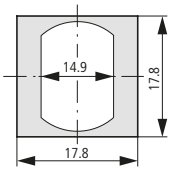
RMQ16 screw adapters

SRA...



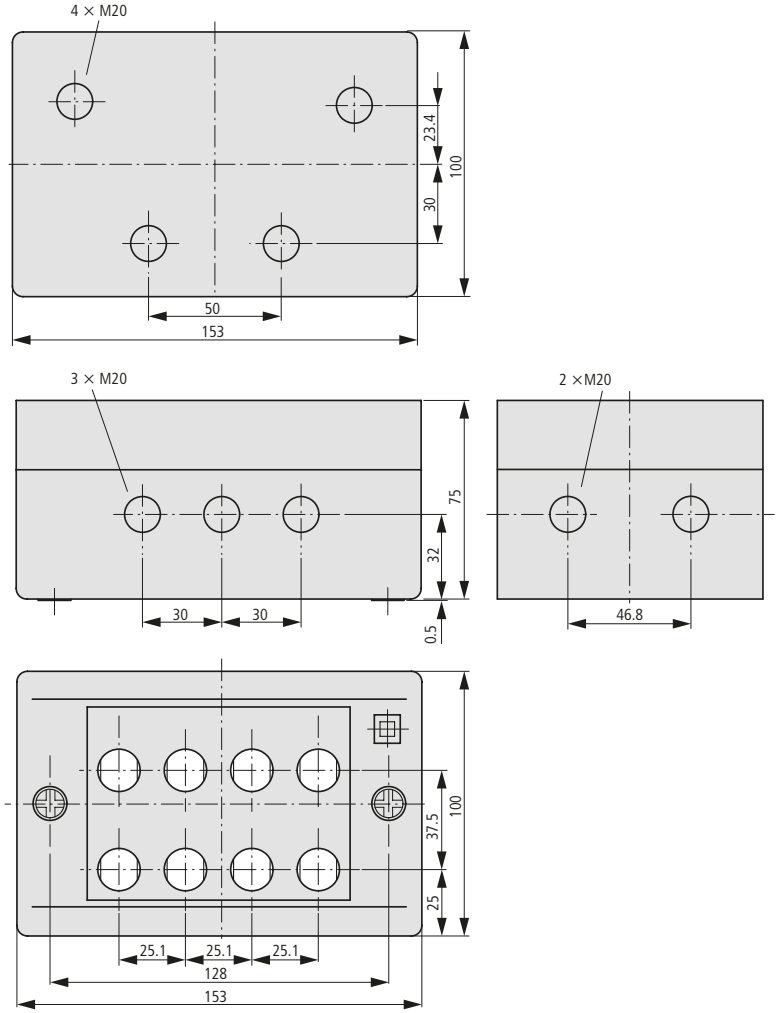
Anti-rotation tab

VS



Housing extension RMQ16

I8...

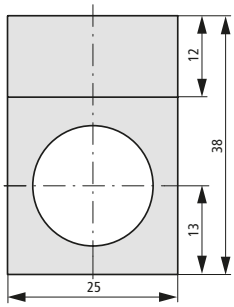


Fixing hole: 2 x ∅ 4.5 mm

Distance: 128 mm

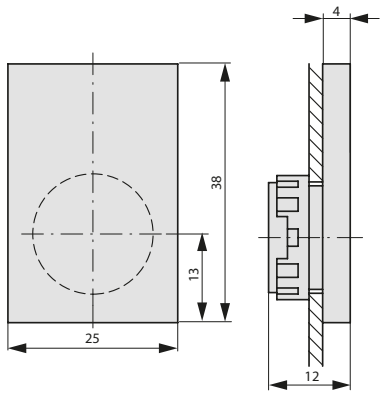
Label mounts RMQ16

Q25TS-...



Blanking plates

Q25AS



Build it in.

Foot and Palm Switches for Universal Use in all Kinds of environments

The large actuation surface on our heavy-duty FAK foot and palm switches makes them both intuitive and quick to use. In addition, they feature a tamper-proof design, preventing tampering during use. FAK devices can be actuated by hand, fist, elbow, or foot, ensuring that quick action can be taken to protect personnel and property whenever necessary. Finally, a high degree of shock resistance and extremely high IP67, IP69K degrees of protection make FAK units the ideal device for rugged applications.

FAK foot and palm switches with a red actuation surface on a yellow background are approved for use as emergency stop buttons. They perfectly match the characteristics required in DIN EN 60204, Safety of machinery – Electrical equipment of machines, and meet all relevant requirements. Moreover, the devices are tamper-proof (see IEC 60947-5) and feature positive-opening contacts (see IEC 60947-5-1).

www.eaton.eu/rmq

FAK

4.0 FAK foot and palm switch

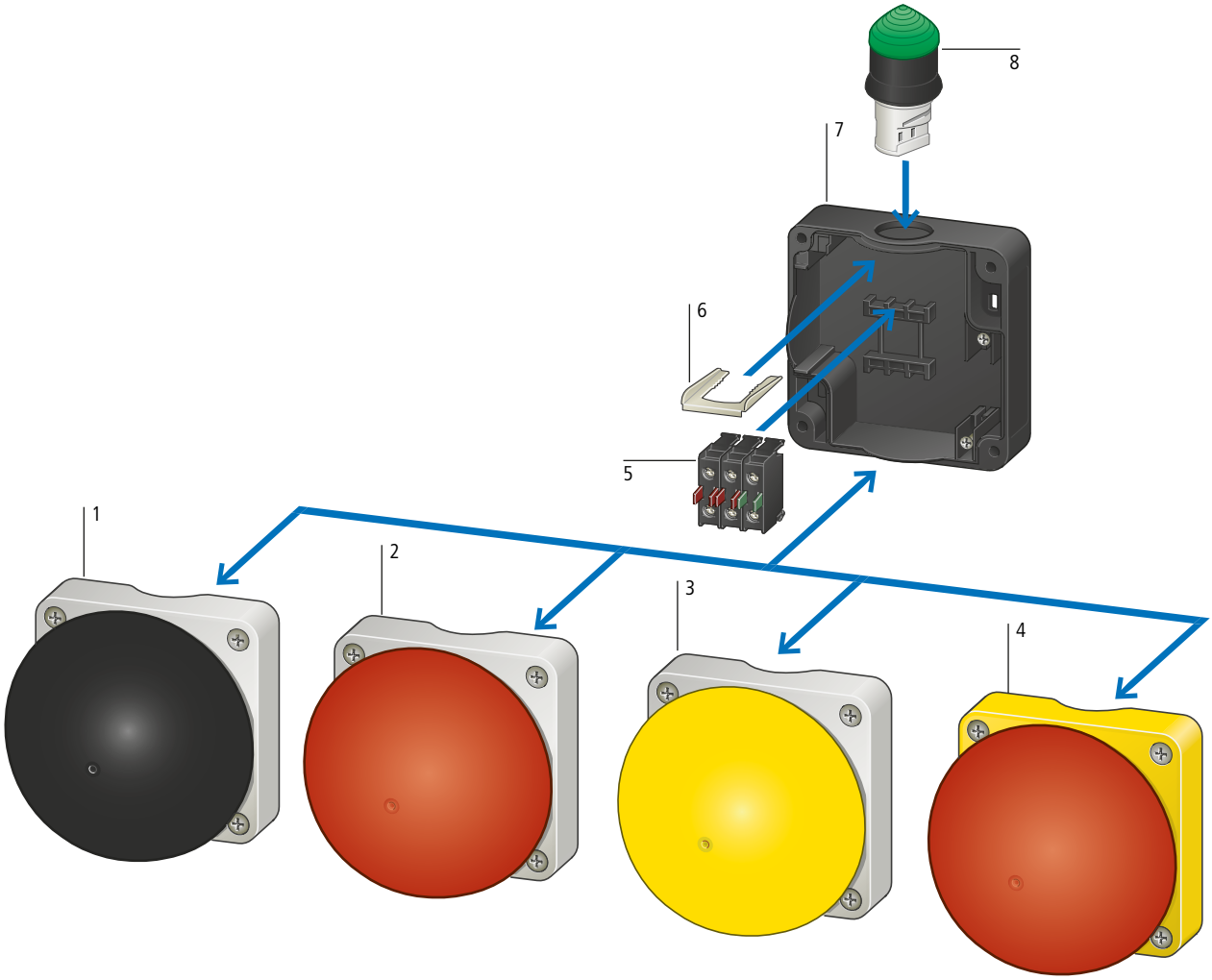
4.0 System overview 145

4.1 Product selection

Complete units, individual components 146

4.2 Technical data, dimensions 147

System overview



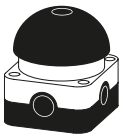
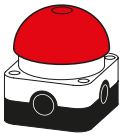
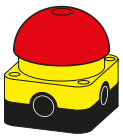
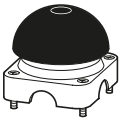
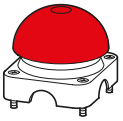
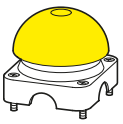
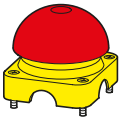
Enclosure base	7
Prepared for contact elements	
Base fixing (not for ...SMC... contacts)	
→ Page 146	

Operator only with button	1, 2, 3, 4
Various color combinations	
Yellow/red for Emergency stop or emergency switching off applications	
European Machinery Safety Directive 2006/42/EC	
For foot or hand operation	
→ Page 146	

Contact elements	5
Base fixing	
→ Page 48	

Indicator lights	6, 8
Conical	
BA9s base	
→ Page 33	

Product selection

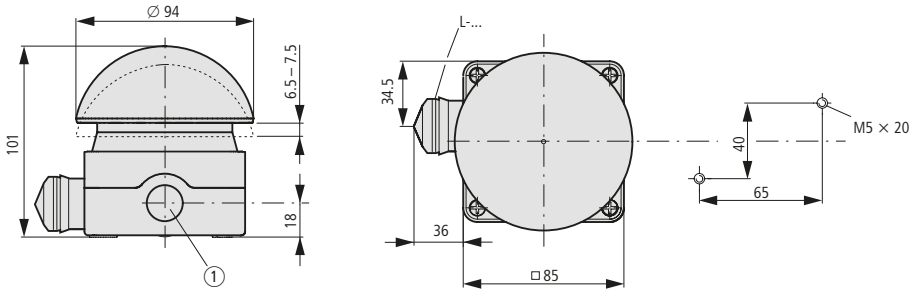
		Contact configuration: ⊖ = Safety function by positive opening according to IEC/EN 60947-5-1		Contact sequence	Approval mark	Part no. Article no.	Std. pack
		N/O = normally open contact	N/C = normally closed contact				
	Foot and palm switches FAK, IP67, IP69K						
momentary 		1 N/O	1 N/C ⊖			**FAK-S/KC11/I** 229749	1 off
momentary 		1 N/O	1 N/C ⊖			**FAK-R/KC11/I** 229746	1 off
maintained 	Pull to release Emergency-stop button tamper-proof to ISO 13850/EN 418	–	1 N/C ⊖			**FAK-R/V/KC01/IY** 229747	1 off
		1 N/O	1 N/C ⊖			**FAK-R/V/KC11/IY** 229748	
		–	2 N/C ⊖			**FAK-R/V/KC02/IY** 256790	
	Customized complete units						
	An order consists of: enclosure base, enclosure top, contact elements for base fixing (→ Page 48)						
						FAK-COMBINATION 2010763	1 off
	Enclosure base						
	For max. 3 contact elements					**FAK-IU** 229753	1 off
	Enclosure top						
momentary 				–		**FAK-S** 095540	1 off
momentary 				–		**FAK-R** 071810	
momentary 				–		**FAK-Y** 229754	
maintained 				–		**FAK-R/V/Y** 229755	

Technical data

			FAK foot and palm switch	
			momentary	maintained
General				
Standards			IEC/EN 60947, VDE 0660	IEC/EN 60947, VDE 0660
Lifespan, mechanical	Operations	x 10^6	1	0.1
Operating frequency	Operations/h		≦ 3600	≦ 600
Operating force		N	20 - 40	40 - 60
Degree of protection, IEC/EN 60529			IP67, IP69K	IP67, IP69K
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30	
Ambient air temperature				
Open		°C	-25 - +40	-25 - +40
Mounting position			any	any
Mechanical shock resistance to IEC 60068-2-27 Shock duration 11 ms, half-sinusoidal		g	> 15	> 15

Dimensions

FAK...



① 3 x M20 (Pg 13.5) lateral
1 x M16 in the base

Build it in.

Signal Operating States Quickly, Clearly, and Flexibly

SL7/SL4 signal towers configurator
www.eaton.eu/config/SL

SL4 and SL7 signal towers are used to continuously signal operating states for machines, systems, and processes. Their scope of application is extremely wide-ranging, going from production, through logistics, all the way to retail. This is in no small part thanks to the fact that the fast and clear signaling they provide ensures smooth and safe operation in any environment.

The light and acoustic modules in the series can be configured flexibly both in terms of volume and of the specific visual signals they emit. This versatility is only further enhanced by the signal towers' high-performance LEDs, which ensure that visual signals are recognized even under adverse light conditions. Moreover, a high IP66 degree of protection makes it possible to use the signal towers in demanding environments, such as outdoors.

With a diameter of 40 mm / 70 mm, SL4 and SL7 signal towers feature extremely compact dimensions designed to save space. In addition, only a few steps are required in order to quickly and easily install and remove them, which can prove to be a tremendous advantage when packing and transporting control panels or machines.

Connecting the signal towers to a SmartWire-DT communication system cuts down on wiring time and reduces the number of digital outputs required from your PLC. This, combined with the fact that data from the switchgear connected with SmartWire-DT will be processed in your PLC, ensures that operating states such as impending overloads will be detected and signaled with the signal towers immediately. The result? A marked increase in your systems' availability.

SL4/SL7

5.0 Signal towers

5.1 System overview

SL4 – System 150

5.2 Product selection

SL4 – Complete devices, light modules 152
SL4 – Light modules 153
SL4 – Light modules, acoustic modules 155
SL4 – Base modules 156
SL4 – Base modules, accessories 157

5.3 System overview

SL7 – System 158

5.4 Product selection

SL7 – Complete devices, light modules 160
SL7 – Light modules 161
SL7 – Acoustic modules 164
SL7 – Base modules 165
SL7 – Base modules, accessories 166

5.5 Technical data

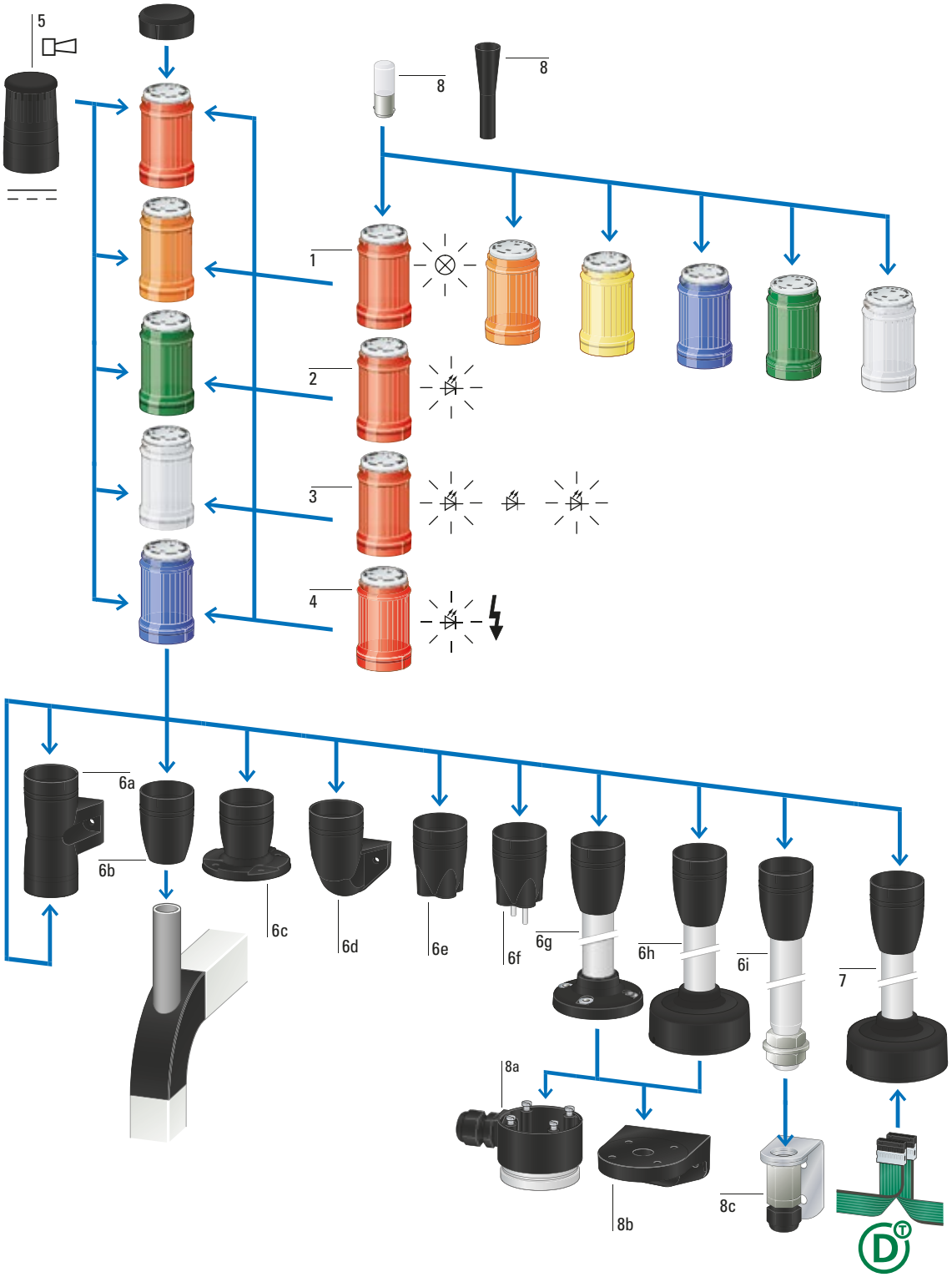
SL4 – Technical data 167
SL7 – Technical data 169

5.6 Dimensions

SL4 – Dimensions 171
SL7 – Dimensions 175

5

System overview



Module for filament lamp, continuous light	1
Without light element (filament lamp with BA15d socket)	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 155	

Module with LED, continuous light	2
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 152	

Module with LED, flashing light	3
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
Flashing frequency 2 Hz	
→ Page 153	

Module with LED, strobe light	4
With a fixed flashing frequency 1.4 Hz	
With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Operating mode: 100% DF (duty factor)	
→ Page 154	

Acoustic module	5
Continuous tone or pulsed tone - adjustable with internal dip switches	
Sound pressure 80 dB, frequency 4000 Hz	
Easy mounting with bayonet mount	
Set up as topmost module	
Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)	
Degree of protection IP66	
Permanently integrated cover plate	
Operating mode: 100% DF (duty factor)	
→ Page 155	

Base module for mounting on both sides	6a
Easy mounting with bayonet mount	
Degree of protection IP66	
With cover plate	
With Push in terminals	
→ Page 157	

Base module can hold tubes	6b
→ Page 156	

Base module with external fixing holes	6c
→ Page 156	

Base module one-sided with bracket	6d
→ Page 157	

Base module with internal (on the inside) fixing holes	6e
→ Page 156	

Base module with built-in (pre-assembled) fixing screws	6f
→ Page 156	

Base module with aluminium tube and plastic foot	6g
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 157	

Base module with base adapter for slipping onto place (rapid mounting and wiring system)	6h
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 156	

Base module with aluminum tube and screw fixing	6h
Aluminium tube 100 mm, 250 mm or 400 mm	
→ Page 156	

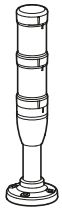
Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	7
Aluminium tube 100 mm	
→ Page 156	

Magnetic base including M20 cable gland	8a
For vertical mounting	
→ Page 157	

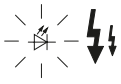
Mounting bracket	8b
For vertical mounting	
→ Page 157	

Accessories	8c
Tool for replacing filament lamp	
Filament lamp	
→ Page 157	

Product selection

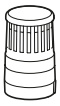
	Rated operational voltage U_e V	Number of modules	Color	Function	Part no. Article no.	Std. pack
	**Complete units**					
Continuous light LED IP66 Base module with foot and 100 mm spacer	24 V AC/DC	2			**SL4-100-L-RG-24LED** 171295	1 off
		3			**SL4-100-L-RYG-24LED** 171296	
	Module with LED					
Continuous light IP66	24 V AC/DC				**SL4-L24-B** 171313	1 off
					SL4-L24-G 171314	
					SL4-L24-R 171315	
					SL4-L24-W 171316	
					SL4-L24-Y 171317	
					SL4-L24-A 171318	
	110/120 V AC				**SL4-L120-B** 171319	
					SL4-L120-G 171320	
					SL4-L120-R 171321	
					SL4-L120-W 171322	
					SL4-L120-Y 171323	
					SL4-L120-A 171324	
	230/240 V AC				**SL4-L230-B** 171325	
					SL4-L230-G 171326	
					SL4-L230-R 171327	
					SL4-L230-W 171328	
					SL4-L230-Y 171329	
					SL4-L230-A 171330	

	Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Flashing light IP66 2 Hz	24 V AC/DC			**SL4-BL24-B** 171337	1 off
				SL4-BL24-G 171338	
				SL4-BL24-R 171339	
				SL4-BL24-W 171340	
				SL4-BL24-Y 171341	
				SL4-BL24-A 171342	
	110/120 V AC			**SL4-BL120-B** 171343	
				SL4-BL120-G 171344	
				SL4-BL120-R 171345	
				SL4-BL120-W 171346	
				SL4-BL120-Y 171347	
				SL4-BL120-A 171348	
	230/240 V AC			**SL4-BL230-B** 171349	
				SL4-BL230-G 171350	
				SL4-BL230-R 171351	
				SL4-BL230-W 171352	
				SL4-BL230-Y 171353	
				SL4-BL230-A 171354	

		Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
	Module with LED					
	Strobe light IP66 1.4 Hz	24 V AC/DC			**SL4-FL24-B** 171355	1 off
					SL4-FL24-G 171356	
					SL4-FL24-R 171357	
					SL4-FL24-W 171358	
					SL4-FL24-Y 171359	
					SL4-FL24-A 171360	
		110/120 V AC			**SL4-FL120-B** 171361	
					SL4-FL120-G 171362	
					SL4-FL120-R 171363	
					SL4-FL120-W 171364	
					SL4-FL120-Y 171365	
					SL4-FL120-A 171366	
		230/240 V AC			**SL4-FL230-B** 171367	
					SL4-FL230-G 171368	
					SL4-FL230-R 171369	
					SL4-FL230-W 171370	
					SL4-FL230-Y 171371	
					SL4-FL230-A 171372	
	Multistrobe light IP66 LED for effective signaling effect With various strobe sequences 1 - 2.6 Hz	24 V AC/DC			**SL4-FL24-B-M** 171373	1 off
					SL4-FL24-G-M 171374	
					SL4-FL24-R-M 171375	
					SL4-FL24-W-M 171376	
					SL4-FL24-Y-M 171377	
					SL4-FL24-A-M 171378	

Module for filament lamp

Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Continuous light IP66 Without lamp Filament lamp max. 4 W Filament lamp → Page 157				
< 250 V AC/DC			**SL4-L-B** 171331	1 off
			SL4-L-G 171332	
			SL4-L-R 171333	
			SL4-L-W 171334	
			SL4-L-Y 171335	
			SL4-L-A 171336	



Acoustic modules

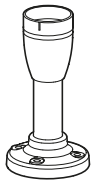
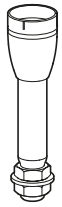
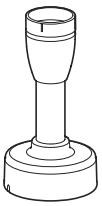
Continuous tone or pulsed tone, adjustable with internal dip switches.
Sound pressure 80 db, adjustable with internal potentiometer
f = 4000 Hz
Place only at the highest position on a pillar
IP66

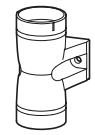
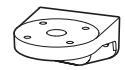
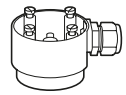
Rated operating voltage U_e V	Rated operational current I_e mA	Color	Function	Type of tone	Part no. Article no.	Std. pack
24 V AC/DC	Max. 39				**SL4-AP24** 171379	1 off
110/120 V AC	Max. 21				**SL4-AP120** 171380	
230/240 V AC	Max. 21				**SL4-AP230** 171381	

Customized complete unit

Order please enquire

					Part no. Article no.	Std. pack
–	–	–	–	–	**SL4-COMBINATION** 2011956	1 off

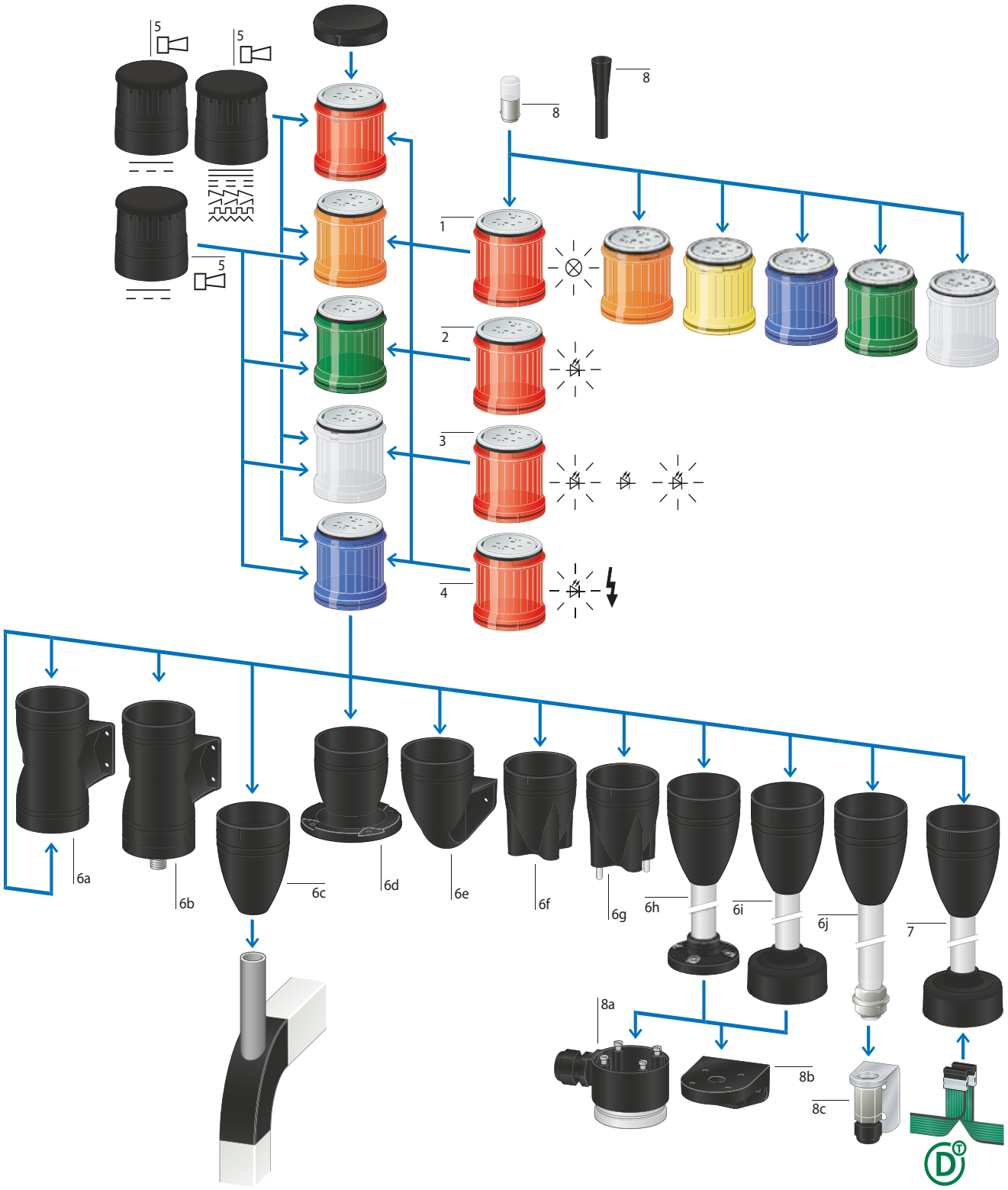
		Tube length	Color	For use with	Part no. Article no.	Std. pack
	Base modules For horizontal mounting including cover max. 5 modules					
	Base with aluminium tube and plastic foot Push in terminals	100 mm	Black Aluminum color tube	SL4-L-… SL4-BL-… SL4-FL-… SL4-AP-...	**SL4-PIB-100** 171297	1 off
		250 mm			**SL4-PIB-250** 171298	
		400 mm			**SL4-PIB-400** 171299	
		800 mm			**SL4-PIB-800** 177313	
	Base with aluminum tube and banjo bolt Push in terminals	100 mm			**SL4-PIB-T-100** 171305	
		250 mm			**SL4-PIB-T-250** 171306	
		400 mm			**SL4-PIB-T-400** 171307	
		800 mm			**SL4-PIB-T-800** 178461	
	Base with external fixing holes Push in terminals	–	Black		**SL4-PIB-EMH** 171302	
	Base with internal (on the inside) fixing holes Push in terminals	–			**SL4-PIB-IMH** 171300	
	Base with built-in (pre-assembled) fixing screws Push in terminals	–			**SL4-PIB-IMS** 171301	
	Base: Can hold tubes with a diameter of 25 mm (±0.5) for wall thickness 2 - 3.4 mm	–			**SL4-PIB-TM** 179986	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm	Black Aluminum color tube		**SL4-FMS-100** 171308	
		250 mm			**SL4-FMS-250** 171309	
		400 mm			**SL4-FMS-400** 171310	
		800 mm			**SL4-FMS-800** 178463	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Parameterizable with SWD-Assist (planning and ordering help)	100 mm			**SL4-SWD** 171311	

		Color	For use with	Part no. Article no.	Std. pack
	Base modules				
	For vertical mounting including cover				
	One-sided base with bracket Push in terminals max. 5 modules	Black	SL4-L-… SL4-BL-… SL4-FL-… SL4-AP-...	**SL4-PIB-FW** 171303	1 off
	For vertical mounting on both sides including cover				
	Base with external fixing holes Push in terminals max. 2 x 5 modules	Black	SL4-L-… SL4-BL-… SL4-FL-… SL4-AP-...	**SL4-PIB-D** 171304	1 off
	**Mounting bracket**				
	For vertical mounting, insulated material				
	–	–	SL4-PIB… SL7-CB...	**SL7/4-FW** 171446	1 off
	Including mounting bracket M20 cable gland				
	For vertical mounting, metal				
	–	–	SL4-PIB-T… SL7-CB-T...	**SL7/4-FW-T** 171455	1 off
	Tool for replacing filament lamp				
	–	–	SL4-L... SL7-L...	**SL7/4-BET** 171294	1 off
	**Magnetic base including M20 cable gland**				
	For vertical mounting, insulated material				
	–		SL4-PIB-100(250)(400) SL7-CB-100(250)(400)	**SL7/4-MMS** 172954	1 off

	Lifespan	Rated operating voltage U_e	Power	For use with	Part no. Article no.	Std. pack
	Filament lamp					
	Ba 15d socket					
	> 3000 h	12 V	4 W	SL4-L-…	**SL4-L12** 171382	1 off
		24 V			**SL4-L24** 171383	
		120 V			**SL4-L120** 171384	
		230 V			**SL4-L230** 171385	

5

System overview



Module for filament lamp, continuous light 1

Without light element (filament lamp with BA15d socket)
Easy mounting with bayonet mount
Modules can be arranged in any order
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)
Degree of protection IP66
Operating mode: 100% DF (duty factor)
→ Page 163

Module with LED, continuous light 2

Easy mounting with bayonet mount
Modules can be arranged in any order
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)
Degree of protection IP66
Operating mode: 100% DF (duty factor)
→ Page 163

Module with LED, flashing light 3

Easy mounting with bayonet mount
Modules can be arranged in any order
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)
Degree of protection IP66
Operating mode: 100% DF (duty factor)
Flashing frequency 2 Hz
→ Page 161

Module with LED, strobe light 4

With a fixed flashing frequency 1.4 Hz
With LED for effective signaling effect with various flashing sequences (flashing frequency 1 - 2.6 Hz)
Easy mounting with bayonet mount
Modules can be arranged in any order
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)
Degree of protection IP66
Operating mode: 100% DF (duty factor)
→ Page 162

Acoustic module 5

Easy mounting with bayonet mount
Set up as topmost module
Max. 2 x 1 module that can be actuated individually (two with base module SL7-CB-D only)
Degree of protection IP66
Permanently integrated cover plate
Operating mode: 100% DF (duty factor)
Sound pressure 80 dB, frequency 4000 Hz
→ Page 164

Acoustic module 5a

Continuous tone or pulsed tone - adjustable with internal dip switches
Frequency: 2800 Hz
→ Page 164

Acoustic module 5b

Multi-tone (8 tones) - adjustable with internal dip switch
Frequency 500 - 2700 Hz
→ Page 164

Acoustic module 5b

Continuous tone or pulsed tone - can be actuated externally; takes up 2 inputs (2 modules)
Frequency: 2800 Hz
→ Page 164

Base module for mounting on both sides 6a

Easy mounting with bayonet mount
Degree of protection IP66
With cover plate
With Push in terminals
→ Page 166

Base module for vertical mounting on one sides 6b

Plug-in connection M22
→ Eaton Online Catalog

Base module can hold tubes 6c

→ Page 165

Base module with external fixing holes 6d

→ Page 165

Base module one-sided with bracket 6e

→ Page 166

Base module with internal (on the inside) fixing holes 6f

→ Page 165

Base module with built-in (pre-assembled) fixing screws 6g

→ Page 165

Base module with aluminium tube and plastic foot 6 h

Aluminium tube 100 mm, 250 mm or 400 mm
→ Page 165

Base module with base adapter for slipping onto place (rapid mounting and wiring system) 6i

Aluminium tube 100 mm, 250 mm or 400 mm
→ Page 165

Base module with aluminum tube and screw fixing 6j

Aluminium tube 100 mm, 250 mm or 400 mm
→ Page 165

Base module with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection 7

Aluminium tube 100 mm
→ Page 165

Accessories 8

Magnetic base including M20 cable gland 8a

For vertical mounting
→ Page 157

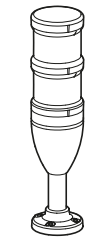
Mounting bracket 8b

For vertical mounting
→ Page 157

Accessories 8c

Tool for replacing filament lamp
Filament lamp
→ Page 157

Product selection

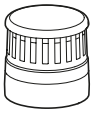
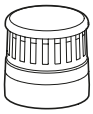
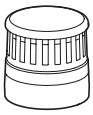


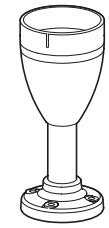
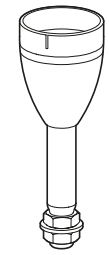
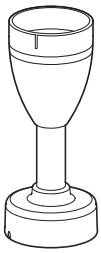
	Rated operating voltage U_e V	Number of modules	Color	Function	Part no. Article no.	Std. pack
Complete units						
Continuous light LED IP66 Base module with foot and 100 mm spacer	24 V AC/DC	2			**SL7-100-L-RG-24LED** 171424	1 off
		3			**SL7-100-L-RYG-24LED** 171425	
Module with LED						
Continuous light IP66	24 V AC/DC				**SL7-L24-B** 171461	1 off
					SL7-L24-G 171462	
					SL7-L24-R 171463	
					SL7-L24-W 171464	
					SL7-L24-Y 171465	
					SL7-L24-A 171466	
	110/120 V AC				**SL7-L120-B** 171467	
					SL7-L120-G 171468	
					SL7-L120-R 171469	
					SL7-L120-W 171470	
					SL7-L120-Y 171471	
					SL7-L120-A 171472	
	230/240 V AC				**SL7-L230-B** 171473	
					SL7-L230-G 171474	
					SL7-L230-R 171475	
					SL7-L230-W 171476	
					SL7-L230-Y 171477	
					SL7-L230-A 171426	

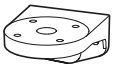
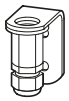
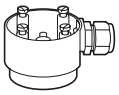
	Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Flashing light IP66 2 Hz	24 V AC/DC			**SL7-BL24-B** 171439	1 off
				SL7-BL24-G 171440	
				SL7-BL24-R 171441	
				SL7-BL24-W 171442	
				SL7-BL24-Y 171388	
				SL7-BL24-A 171389	
	110/120 V AC			**SL7-BL120-B** 171390	
				SL7-BL120-G 171391	
				SL7-BL120-R 171392	
				SL7-BL120-W 171393	
				SL7-BL120-Y 171394	
				SL7-BL120-A 171395	
	230/240 V AC			**SL7-BL230-B** 171396	
				SL7-BL230-G 171397	
				SL7-BL230-R 171398	
				SL7-BL230-W 171399	
				SL7-BL230-Y 171400	
				SL7-BL230-A 171401	

	Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Module with LED					
Strobe light IP66 1.4 Hz	24 V AC/DC			**SL7-FL24-B** 171402	1 off
				SL7-FL24-G 171403	
				SL7-FL24-R 171404	
				SL7-FL24-W 171405	
				SL7-FL24-Y 171406	
				SL7-FL24-A 171407	
	110/120 V AC			**SL7-FL120-B** 171408	
				SL7-FL120-G 171409	
				SL7-FL120-R 171410	
				SL7-FL120-W 171411	
				SL7-FL120-Y 171412	
				SL7-FL120-A 171413	
	230/240 V AC			**SL7-FL230-B** 171414	
				SL7-FL230-G 171415	
				SL7-FL230-R 171416	
				SL7-FL230-W 171417	
				SL7-FL230-Y 171418	
				SL7-FL230-A 171419	

	Rated operating voltage U_e V	Color	Function	Part no. Article no.	Std. pack
Module with high power LED					
Continuous light IP66 High-performance LED for maximum signaling effect High Performance LED	24 V AC/DC			**SL7-L24-B-HP** 171427	1 off
				SL7-L24-G-HP 171428	
				SL7-L24-R-HP 171429	
				SL7-L24-W-HP 171430	
				SL7-L24-Y-HP 171431	
				SL7-L24-A-HP 171432	
Strobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1.4 Hz	24 V AC/DC			**SL7-FL24-B-HP** 171420	
				SL7-FL24-G-HP 171421	
				SL7-FL24-R-HP 171422	
				SL7-FL24-W-HP 171423	
				SL7-FL24-Y-HP 171273	
				SL7-FL24-A-HP 171274	
Multistrobe light IP66 High-performance LED for maximum signaling effect High Performance LED 1 - 2.6 Hz	24 V AC/DC			**SL7-FL24-B-HPM** 171275	
				SL7-FL24-G-HPM 171276	
				SL7-FL24-R-HPM 171277	
				SL7-FL24-W-HPM 171278	
				SL7-FL24-Y-HPM 171279	
				SL7-FL24-A-HPM 171280	
Module for filament lamp					
Continuous light IP66 Without lamp Filament lamp max. 7 W Filament lamp → Page 166	< 250 V AC/DC			**SL7-L-B** 171433	1 off
				SL7-L-G 171434	
				SL7-L-R 171435	
				SL7-L-W 171436	
				SL7-L-Y 171437	
				SL7-L-A 171438	

	Rated operating voltage	Rated operational current	Color	Function	Type of tone	Part no. Article no.	Std. pack
	U_e	I_e					
	V	mA					
	Acoustic modules						
	Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 100 db, adjustable with internal potentiometer f = 2800 Hz Place only at the highest position on a pillar IP66						
	24 V AC/DC	Max. 92	■			**SL7-AP24** 171281	1 off
	110/120 V AC	Max. 41	■			**SL7-AP120** 171282	
	230/240 V AC	Max. 43	■			**SL7-AP230** 171283	
	Continuous tone or pulsed tone, external actuation. Assigned two inputs (2 modules). Sound pressure 100 db, adjustable with internal potentiometer f = 2800 Hz Place only at the highest position on a pillar IP66						
	24 V AC/DC	Max. 92	■			**SL7-AP24-E** 171284	1 off
	110/120 V AC	Max. 41	■			**SL7-AP120-E** 171285	
	230/240 V AC	Max. 43	■			**SL7-AP230-E** 171286	
	Multi-tone; 8 tones, adjustable with internal dip switch. Sound pressure 100 db, adjustable with internal potentiometer f = 500 - 2700 Hz Place only at the highest position on a pillar IP66						
	24 V AC/DC	Max. 115	■			**SL7-AP24-M** 171287	1 off
	110/120 V AC	Max. 45	■			**SL7-AP120-M** 171288	
	230/240 V AC	Max. 43	■			**SL7-AP230-M** 171289	
	Customized complete unit						
	Order please enquire						
	–	–	–	–	–	**SL7-COMBINATION** 2011955	1 off

		Tube length	Color	For use with	Part no. Article no.	Std. pack
	Base modules For horizontal mounting including cover max. 5 modules					
	Base with aluminium tube and plastic foot Spring-cage terminals	100 mm	Black Aluminum color tube	SL7-L-… SL7-BL-… SL7-FL-… SL7-AP-…	**SL7-CB-100** 171443	1 off
		250 mm			**SL7-CB-250** 171444	
		400 mm			**SL7-CB-400** 171445	
		800 mm			**SL7-CB-800** 177312	
	Base with aluminum tube and screw fixing Spring-cage terminals	100 mm			**SL7-CB-T-100** 171452	
		250 mm			**SL7-CB-T-250** 171453	
		400 mm			**SL7-CB-T-400** 171454	
		800 mm			**SL7-CB-T-800** 178460	
	Base with internal (on the inside) fixing holes Spring-cage terminals	–	Black		**SL7-CB-IMH** 171447	
	Base with built-in (pre-assembled) fixing screws Spring-cage terminals	–			**SL7-CB-IMS** 171448	
	Base with external fixing holes Spring-cage terminals	–			**SL7-CB-EMH** 171449	
	Base: Can hold tubes with a diameter of 25 mm (±0.5) Spring-cage terminals	–			**SL7-CB-TM** 179987	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Screw terminals	100 mm	Black Aluminum color tube		**SL7-FMS-100** 171456	
		250 mm			**SL7-FMS-250** 171457	
		400 mm			**SL7-FMS-400** 171458	
		800 mm			**SL7-FMS-800** 178462	
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 0.3 A per module External power supply connectable (24 V DC) Parameterizable with SWD-Assist (planning and ordering help)	100 mm			**SL7-SWD** 171459	

		Color	For use with	Part no. Article no.	Std. pack
	Base modules				
	For vertical mounting, with cover, max. 5 modules				
	One-sided base with bracket Spring-cage terminals	Black	SL7-L-… SL7-BL-… SL7-FL-… SL7-AP-…	**SL7-CB-FW** 171450	1 off
	For vertical mounting on both sides, with cover, max. 2 x 5 modules				
	Base with external fixing holes Spring-cage terminals	Black	SL7-L-… SL7-BL-… SL7-FL-… SL7-AP-…	**SL7-CB-D** 171451	1 off
	**Mounting bracket**				
	For vertical mounting, insulated material				
	–	–	SL4-PIB… SL7-CB...	**SL7/4-FW** 171446	1 off
	**Including mounting bracket M20 cable gland**				
	For vertical mounting, metal				
	–	–	SL4-PIB-T… SL7-CB-T...	**SL7/4-FW-T** 171455	1 off
	Tool for replacing filament lamp				
	–	–	SL4-L... SL7-L...	**SL7/4-BET** 171294	1 off
	**Magnetic base including M20 cable gland**				
	For vertical mounting, insulated material				
	–		SL4-PIB-100(250)(400) SL7-CB-100(250)(400)	**SL7/4-MMS** 172954	1 off

	Lifespan	Rated operating voltage U_e	Power	For use with	Part no. Article no.	Std. pack
	Filament lamp					
	Ba 15d socket					
	> 3000 h	12 V	5 W	SL7-L-…	**SL7-L12** 171290	1 off
		24 V	6.5 W		**SL7-L24** 171291	
		120 V	7 W		**SL7-L120** 171292	
		230 V	6.5 W		**SL7-L230** 171293	

Technical data

			SL4-…
General			
Standards			IEC/EN 60947-5-1, UL508
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			any
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus
IEC degree of protection			IP66 IEC/EN 60529
Degree of protection UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Color of lamp hood			blue, green, red, clear, yellow, orange, amber
Ambient air temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacities			
Solid/flexible		mm^2	0.2 - 1.5
Solid/flexible, with ferrule		mm^2	0.25 - 1.5
Flexible with ferrule with plastic collar		mm^2	0.25 - 0.75
			AWG 24 - AWG 16
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated insulation voltage	U_i	V	250
Overvoltage category/degree of pollution			III/3

		SL4-L…-…	SL4-BL…-…	SL4-FL…-…	SL4-FL24-…-M	SL4-L…
Light modules						
Type of light		Continuous light	Flashing light	Strobe light	Multistrobe light	Continuous light
Lamp		LED				Filament lamp max. 4 W
Lamp holder		–	–	–	–	Ba15d
Flashing/strobe frequency		–	2 Hz	1.4 Hz	1 - 2.6 Hz	–
Transmission angle		360°				
Leakage current	A	< 0.003				
Current/power consumption						
24 V AC/DC	A	0.022 - 0.033	0.028 - 0.036	0.035 - 0.065	0.048 - 0.068	–
110/120 V AC	A	0.030	0.030	0.10	–	–
230/240 V AC	A	0.030	0.030	0.10	–	–
Power consumption		–	–	–	–	Max. 4 W with the specified voltages
Voltage range		24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			24 V AC/DC ± 10 %	up to 250 V AC/DC
Lifespan	h	> 100000				
Weight	g	45				

5

		SL4-AP…
Acoustic modules		
Type of tone		Continuous or pulsed tone
Types of sound		2 versions, → table of sound types
Sound setting		built-in, 1 pole DIP
Sound pressure	dB	80
Sound pressure level adjustment		-
Sound pressure can be lowered to a minimum of		-
Transmission angle		360°
Current/power consumption		
24 V AC/DC	A	0.039
110/120 V AC	A	0.021
230/240 V AC	A	0.021
Voltage range		24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %
Weight	g	43

	Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
Table of sound types						
SL4-AP…	Continuous tone	approx. 4000	———	–	–	80
	Pulse tone	approx. 4000	— — —	approx. 2 Hz	–	80

			SL7-…
General			
Standards			IEC/EN 60947-5-1, UL508
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			any
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Half sinus
IEC degree of protection			IP66 IEC/EN 60529
Degree of protection UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Color of lamp hood			blue, green, red, clear, yellow, orange, amber
Ambient air temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacities			
Solid/flexible		mm^2	0.13 - 2.5
Flexible with ferrule with plastic collar		mm^2	0.25 - 1.5
			AWG 24 - AWG 14
Contacts			
Rated impulse withstand voltage	U_{imp}	V AC	4000
Rated insulation voltage	U_i	V	250
Overvoltage category/degree of pollution			III/3

		SL7-L-…-…	SL7-BL-…-…	SL7-FL-…-…	SL7-L24-…-HP	SL7-FL24-…-HP	SL7-FL24-…-HPM	SL7-L-…
Light modules								
Type of light		Continuous light	Flashing light	Strobe light	Continuous light	Strobe light	Multistrobe light	Continuous light
Lamp		LED			High Performance LED			Filament lamp max. 7 W
Lamp holder		–	–	–	–	–	–	Ba15d
Flashing/strobe frequency		–	2 Hz	1.4 Hz	–	1.4 Hz	1 - 2.6 Hz	–
Transmission angle		360°						
Leakage current	A	< 0.003						
Current/power consumption								
24 V AC/DC	A	0.049 - 0.054	0.058	0.130 - 0.135	0.170 - 0.200	0.260 - 0.265	0.260 - 0.265	–
110/120 V AC	A	0.028 - 0.031	0.028 - 0.030	0.010	–	–	–	–
230/240 V AC	A	0.027 - 0.028	0.030 - 0.031	0.010	–	–	–	–
Power consumption		–	–	–	–	–	–	Max. 7 W with the specified voltages
Voltage range		24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %			18-30 V DC/18-26 V AC			up to 250 V AC/DC
Lifespan	h	> 100000			> 50000			> 3000
Weight	g	80						

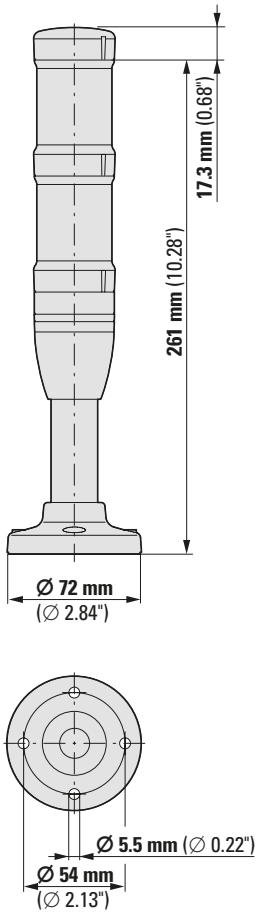
		SL7-AP…	SL7-AP…-E	SL7-AP…-M
Acoustic modules				
Type of tone		Continuous or pulsed tone		Continuous or pulsed tone 8 types of sound
Types of sound		2 versions, → table of sound types		8 versions, → table of sound types
Sound setting		Built-in, 1 pole DIP	Can be externally actuated	Built-in, 3 pole DIP
Sound pressure	dB	100		
Sound pressure level adjustment		Built-in, potentiometer		
Sound pressure can be lowered to a minimum of		88 dB		
Transmission angle		360°		
Current/power consumption				
24 V AC/DC	A	0.092	0.092	0.115
110/120 V AC	A	0.041	0.041	0.045
230/240 V AC	A	0.043	0.043	0.043
Voltage range		24 V AC/DC ± 10 % 110/120 V AC ± 10 % 230/240 V AC ± 10 %		
Weight	g	102		

	Type of tone	Frequency Hz	Plot	Repeat rate	Special application	Max. volume dB
Table of sound types						
SL7-AP…	Continuous tone	approx. 2800		–	–	100
	Pulse tone	approx. 2800		approx. 2 Hz	–	100
SL7-AP…-E	Continuous tone	approx. 2800		–	–	100
	Pulse tone	approx. 2800		approx. 2 Hz	–	100
SL7-AP…-M	Continuous tone	2700		–	–	100
	Continuous tone	1350		–	–	100
	Pulse tone	2700		250 ms on, 250 ms off	–	100
	Pulse tone	1350		250 ms on, 250 ms off	–	100
	Falling	1200 - 500		1 Hz	Evacuation, Germany, DIN 3304-3	98
	Rising	500 - 1200		Rising 3 s, 0.5 s off	Netherlands NEN 2575:2000	98
	Alternating	800 - 1000		2 Hz		94
	Rising/falling	500 - 1500		10 Hz		94

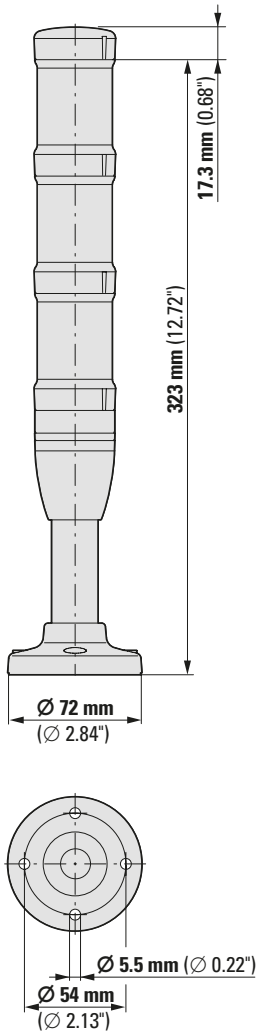
Dimensions

Complete units

SL4-100-L-RG-24LED

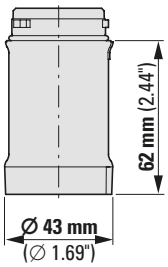


SL4-100-L-RYG-24LED



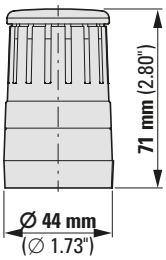
Light modules

SL4-(B)(F)L …



Acoustic modules

SL4-AP…



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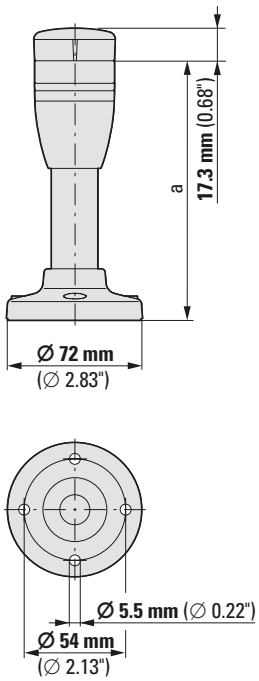
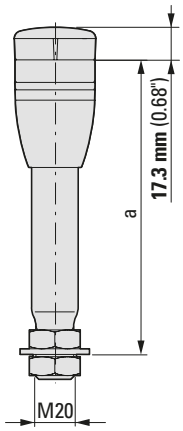
Base modules

SL4-PIB-…



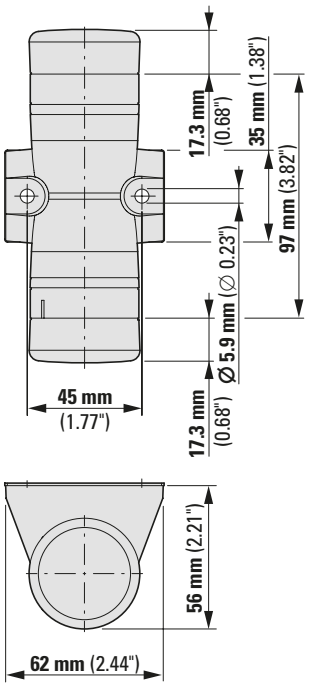
Part no.	a mm (inch)
SL4-PIB-100	136 (3.53)
SL4-PIB-250	286 (11.26)
SL4-PIB-400	436 (17.16)
SL4-PIB-800	836 (32.91)

SL4-PIB-T-…

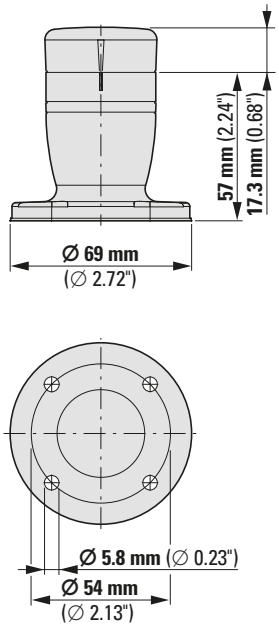


Part no.	a mm (inch)
SL4-PIB-T-100	150 (5.90)
SL4-PIB-T-250	300 (11.81)
SL4-PIB-T-400	450 (17.72)
SL4-PIB-T-800	850 (33.46)

SL4-PIB-D

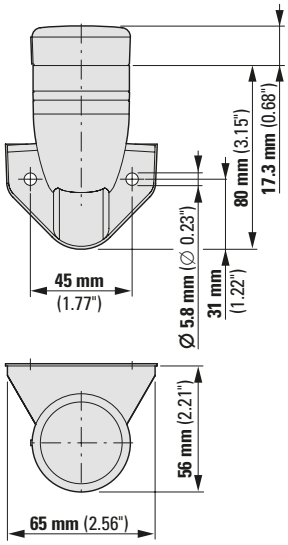


SL4-PIB-EMH

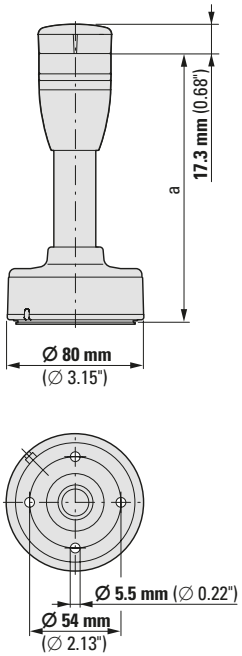


Base modules

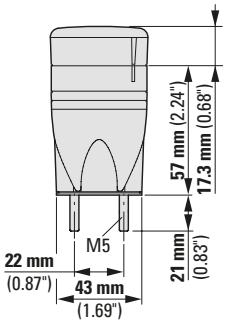
SL4-PIB-FW



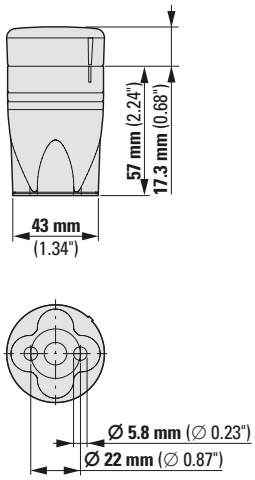
SL4-PIB-IMH



SL4-PIB-IMS

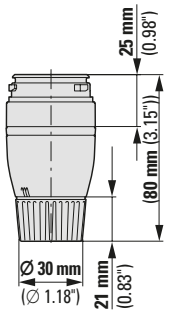


SL4-FMS-…



Part no.	a mm (inch)
SL4-FMS-100	157 (6.18)
SL4-FMS-250	307 (12.09)
SL4-FMS-400	457 (17.99)
SL4-FMS-800	857 (33.74)

SL4-PIB-TM



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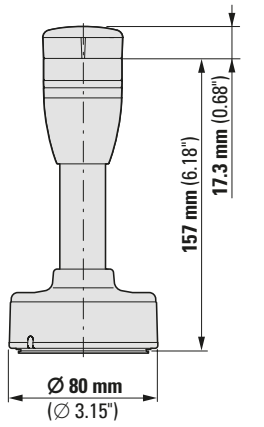
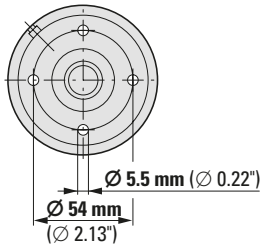
Base module for connecting to SmartWire-DT®

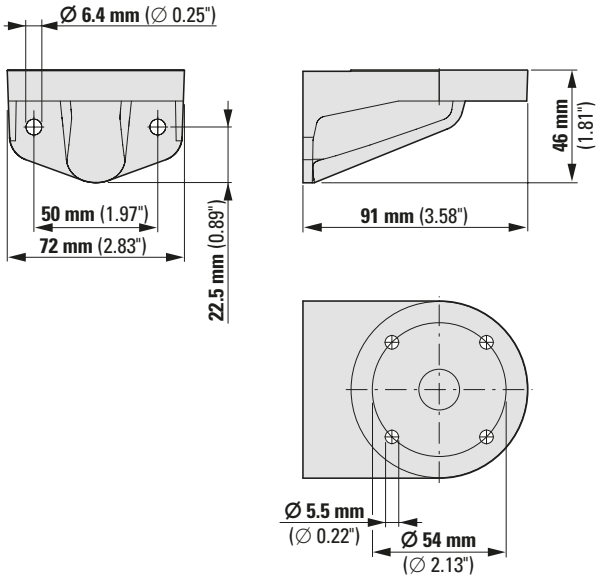
SL4-SWD



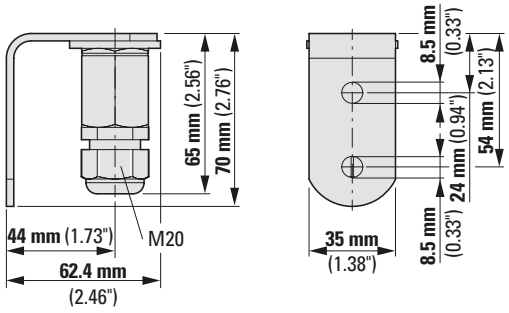


Mounting bracket

SL7/4-FW

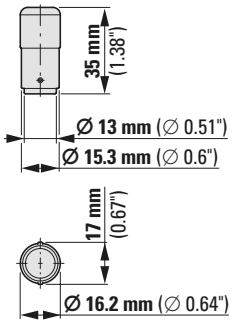


SL7/4-FW-T



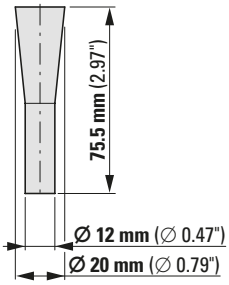
Filament lamp

SL4-L12(24)(120)(230)



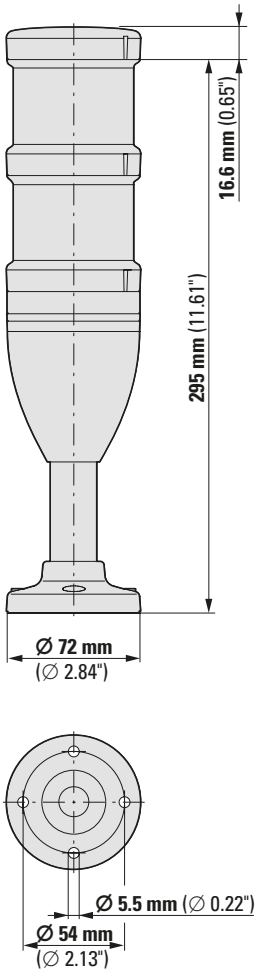
Tool for replacing filament lamp

SL7/4-BET

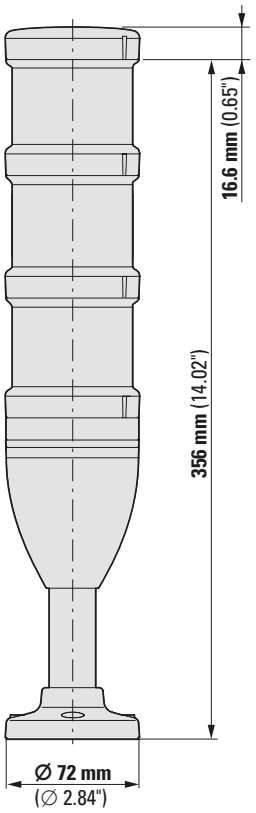


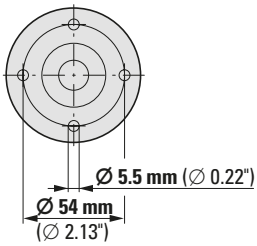
Complete units

SL7-100-L-RG-24LED



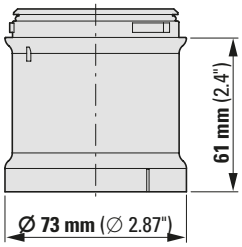
SL7-100-L-RYG-24LED





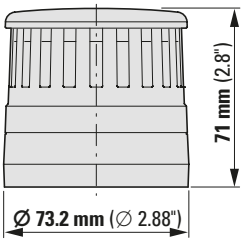
Light modules

SL7-(B)(F)L …



Acoustic modules

SL7-AP…



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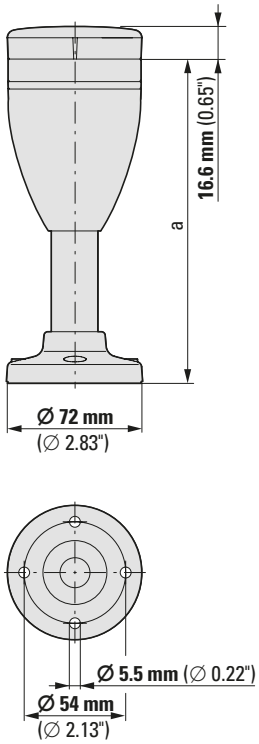
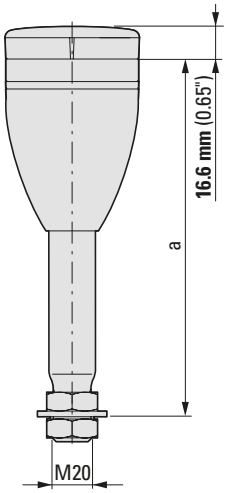
Base modules

SL7-CB-...



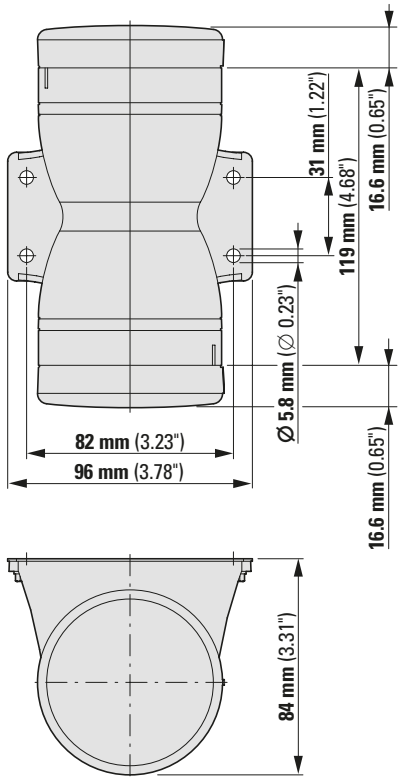
Part no.	a mm (inch)
SL7-CB-100	171 (6.73)
SL7-CB-250	321 (12.64)
SL7-CB-400	471 (18.54)
SL7-CB-800	871 (34.29)

SL7-CB-T-...

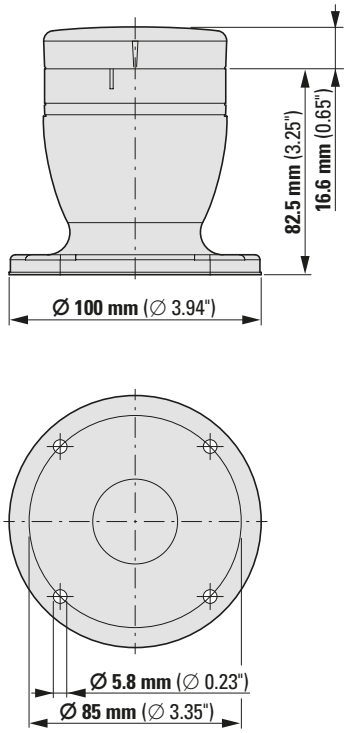


Part no.	a mm (inch)
SL7-CB-T-100	190 (7.48)
SL7-CB-T-250	340 (13.38)
SL7-CB-T-400	490 (19.29)
SL7-CB-T-800	890 (35.04)

SL7-CB-D

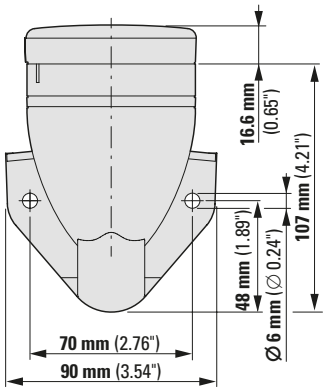


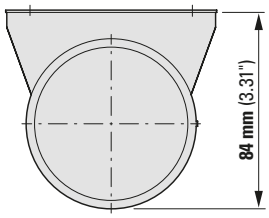
SL7-CB-EMH



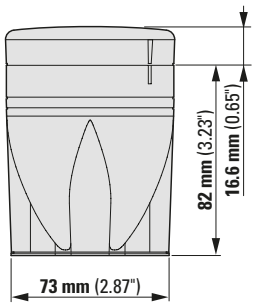
Base modules

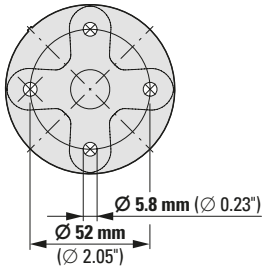
SL7-CB-FW



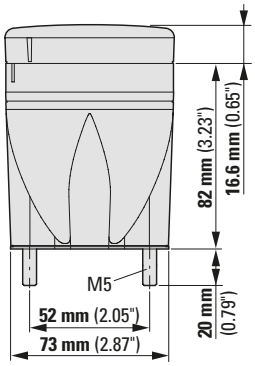


SL7-CB-IMH

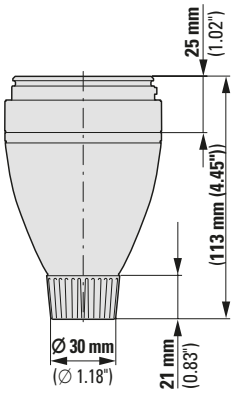


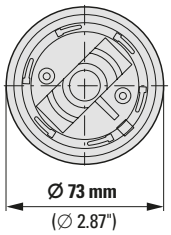


SL7-CB-IMS

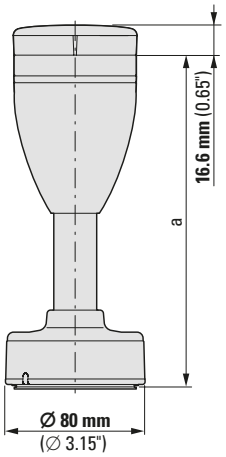


SL7-CB-TM

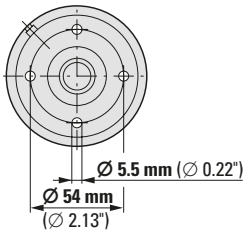




SL7-FMS-…



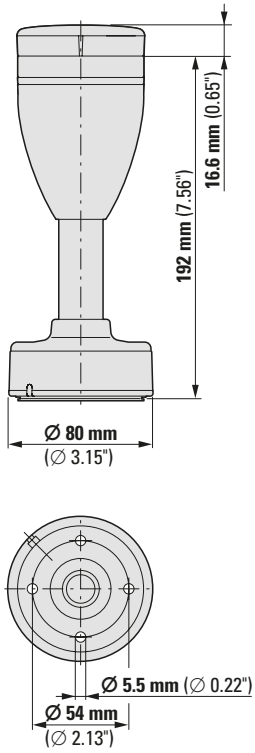
Part no.	a mm (inch)
SL7-FMS-100	192 (7.55)
SL7-FMS-250	342 (13.46)
SL7-FMS-400	492 (19.37)
SL7-FMS-800	892 (35.12)



5

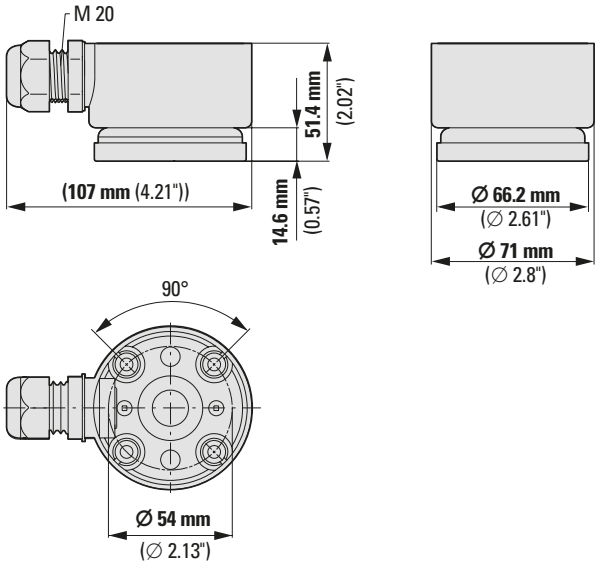
Base module for connecting to SmartWire-DT®

SL7-SWD



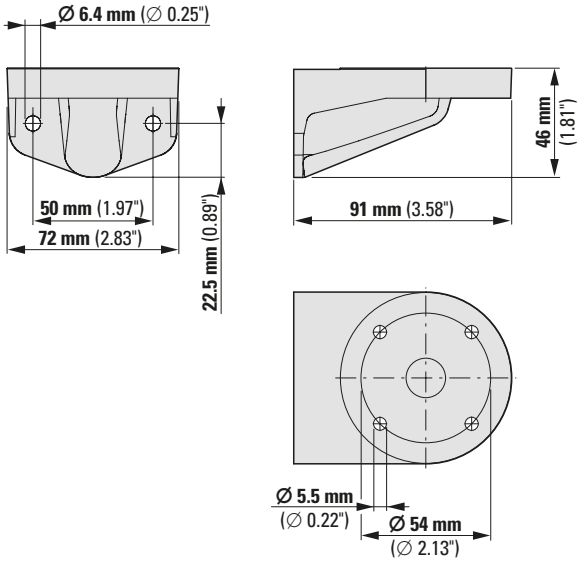
Magnetic base including M20 cable gland

SL7/4-MMS

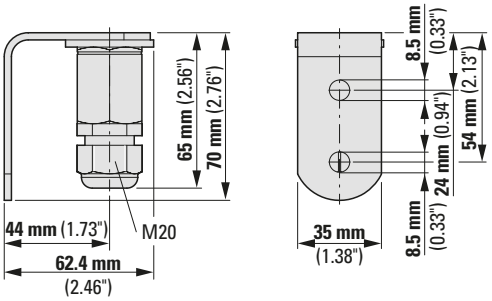


Mounting bracket

SL7/4-FW

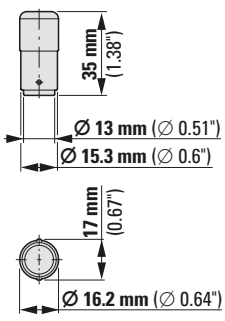


SL7/4-FW-T



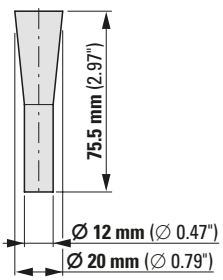
Filament lamp

SL7-L12(24)(120)(230)



Tool for replacing filament lamp

SL7/4-BET



Build it in.

The RMQ C22 Series: Powerful Functionality with a Compact Design

Download product range catalog „C22 compact portfolio“ www.eaton.com

RMQ C22 pilot devices are not only characterized by compact dimensions and a conventional screw connection, but also feature the same design that has made units such as our M22 modular pushbuttons stand the test of time. C22 devices are built as monolithic units with an “all-in-one” focus that combines contacts and lamps in a single housing.

In addition to a comprehensive selection of operators and selector switches, the C22 product portfolio also includes emergency stop buttons in a variety of versions, including lockable units.

C22 devices combine multiple components in a single device. This compact design means that only one article no. is required, making product selection and ordering much easier and faster. On top of this, these devices have an extremely long mechanical life and are suitable for worldwide use.

Build it in.

Galileo

CODESYS

XV HMI/PLC: Easy and Convenient Operation for a Rapidly Changing World

Eaton's XV HMI PLC touch panels comprise a range of products that has been fine-tuned to perfection and can be seamlessly integrated into a variety of performance classes. Capacitive, resistive, and infrared touch technology devices are available in display sizes ranging from 3.5" to 15" with a plastic, metal, or stainless steel housing. Moreover, an on-board SmartWire-DT master interface makes it possible to achieve significant savings all the way from the hardware planning stage through commissioning.

With its multi-touch display HMI PLC units, the XV300 series has opened a whole new world of intuitive and convenient operation. These panels feature the same ease of use as modern mobile devices, such as smartphones and tablets, but upgraded for industrial applications.

Combined with a small mounting depth, the completely flat, anti-reflective, and tempered glass panel in XV300 units ensures that these devices not only meet the most demanding design and hygiene requirements, but are also ideal for use in harsh industrial environments.

Build it in.

Control and Signaling in Hazardous Locations

For more information please refer to the Crouse-Hinds main catalog (Part 2)

Download at:
www.crouse-hinds.de/en
Products and Brochures

CEAG products from Eaton's Crouse-Hinds series include signal and control devices for a reliable operation in harsh environments.

Enclosures in high degree of protection (IP66) are available in impact-resistant plastic, glass fiber-reinforced polyester, light alloy or stainless steel with a high resistance to chemicals.

The portfolio includes explosion-protected built-in components designed for panel mounting and use in zones 1 and 2. In addition to control units, it also includes signal lamps, pushbuttons, and switches. Moreover, the switch and pushbutton top parts can be combined with various contact systems.

Control units are available in enclosure soltions that make them suitable for use in zone 1, 2, 21, and 22. Up to three built-in components can be installed in each enclosure. Even the light alloy and stainless steel enclosures are particularly characterized by high mechanical and thermal resistances.

Explosion-protected built-in components
The use of CEAG signal and control devices for panel mounting applications is approved for panel thicknesses of up to 5 mm. The panel built-in devices, signal lamps, pushbutton, and switch bases can be installed in a matter of seconds by using the bayonet mount on the devices. Single-wire installation is easy and clear. Slip-on strain-relief fittings and protective caps for the cable connections can be retrofitted on all panel mounting devices, at which point the devices become fully certified units.
This approach eliminates the need to configure and keep spares of panel built-in devices with different cable lengths.

Built-in components for control units
The variety of built-in components available means that custom-tailored control units for specific customers can be put together within the scope of type examination. The switch and button top parts can be combined with a variety of contact systems as necessary.

Explosion-protected control units
Enclosure solutions made of low-temperature impact-resistant thermoplastic, high-quality die-cast aluminum (AlSi), or stainless steel (AISI 316) are available. The well-engineered design behind the plastic housing makes it possible to achieve an optimum cable connection thanks to the fact that the side panels are drawn deeper.

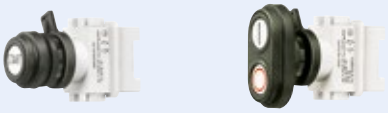
In order to make cable routing easier, the built-in components can be snapped out from the housing.
Mounting openings can be left unused so that certified genuine CEAG components can be retrofitted as necessary. In this case, the openings will be sealed at the factory with blanking elements.

Assortment
The explosion-protected pilot devices are available as pushbuttons, double pushbuttons, mushroom-head pushbuttons, emergency stop mushroom-head pushbuttons, key-operated pushbuttons and LED signal lamps with a number of designs. In addition, a variety of accessories, including label plates and protective caps, are available as well.
In the case of explosion-protected control units, the built-in components are installed inside an enclosure, making them suitable for use in zone 1 and 2 explosive gas areas and zone 21 and 22 explosive dust areas. The corresponding enclosures made of plastic, light alloy, or stainless steel feature a high degree of protection (IP66).

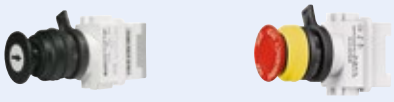
Eaton Crouse-Hinds products are suitable for use in harsh and demanding environmental conditions.

Quick and easy installation of built-in components in control panels.

Explosion-protected built-in components
for zone 1 and 2



Pushbuttons



Mushroom-head pushbuttons

Key-operated actuators

Signal lamp

Explosion-protected enclosure solutions
for zones 1, 2, 21 and 22

Plastic

Light alloy

Stainless steel

Our Service – Your Benefit

See More, Do More

- We increase your profits
- We improve your productivity and quality
- We reduce your total cost of ownership
- We simplify your sourcing and ordering processes
- You can focus on your core competencies
- Environmental benefit:
  We minimize your packaging and transportation effort

VAS-EMEA@eaton.com

Basic Services

- Dispatch notification
- Customized labels / barcodes
- Kitting – all variations / different possibilities
- Customer-specific packaging

Warehouse Services

Integrated Solutions

- Product assemblies
- Product combinations incl. wiring
- Products in enclosures / on DIN-rail / mounting plate
- SmartWire-DT solutions
- Pre-programmed soft starters / HMI's / PLC's

Assemblies

Customized Solutions

- Workshops with Value Analysis/Value Engineering approach

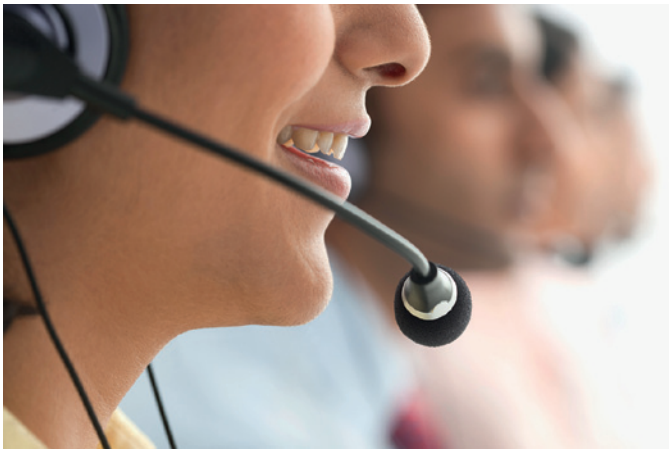
Workshops / Innovation

With our Value Added Services you can save up to 40% of your costs!

To find the right contact person

At Eaton, we believe that building and maintaining strong relationships with our customers is something that deserves our undivided attention.

That is why you can rest assured knowing that you will be able to count on us for every project from the very start. Simply contact us to get personalized one-on-one advice. To quickly and easily find the appropriate contact, please refer to the contact addresses below.



In just a few steps, we will get you the contact information for the person or team in charge of support for your specific industry in your region.

To find the right contact person anywhere in the world, visit:

→ www.eaton.eu/contact

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Printed in Germany 11/16
Publication No.: CA047003EN
Version 1.0 / ip November 2016
Article No.: 188298

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