

SL7 and SL4 signal towers

Product Range Catalog

Clearly brighter, louder und faster



EATON

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Lookup

You can search by keywords, product names, article numbers, technical data: The search understands everything and takes you straight to the product you're looking for.

Graphical navigation

Graphical representation of the fields of application and product groups.

Selection aids

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Data sheets

For every article the catalog can generate a technical data sheet, which you can convert to a PDF file for printing or saving with a single click.

Parts lists

From your search results you can create a parts list that you can then send to your Eaton sales partner as a query.

You can find comprehensive up-to-date information about Eaton's automation products and switchgear in our Online Catalog.

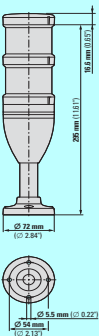


HTML data sheet; can be saved as PDF file.

Parts list					
Item	Qty.	Photo	Article no.	Part no.	Short Text
1	1		111017	ES-AP-221-0M01	Safety control relay, 24 V DC, 16 A
2	1		228758	FAK-CONVERTER	Complete unit
3	1		284831	M225-00LM-GS-X10-D	Double ext. illum. flat off-button ext.
4	1		250090	DLH15-01 (110V/50Hz, 120V/60Hz)	Contactor 7.5kW/400V AC-operated
5	1		138516	PKE55X70-85	PKE55 + trip block Standard 8-65A
Select all					
Delete position Save changes Add trip position					

Parts list, e.g. for queries to Eaton Sales.



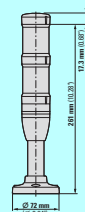


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With 2012 sales of \$16.3 billion, Eaton has approximately 103,000 employees around the world and sells products in more than 175 countries.



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Eaton is a global leader with expertise in:

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- Structural solutions and wiring devices
- Control and automation
- Engineering services

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We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

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Clearly Eaton!

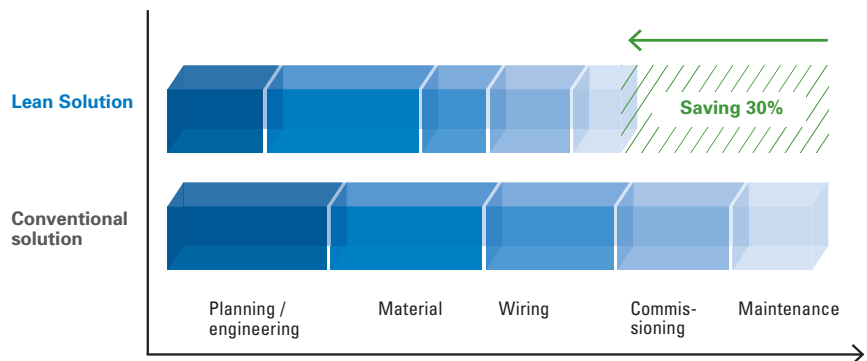
Eaton has the entire machine in view – from the control panel to the peripherals. Its optimized signal towers can now guarantee even better control over all key processes and with it increased availability for your machines.



Clearly MORE EFFICIENT!

An essential part of Eaton's Lean Solution approach, SmartWire-DT is a technology designed to reduce electrical engineering costs for machines by up to 30%. Signal towers are an important component of this technology, since the advance warning function provides information that help the operator avoid potential standstills and increase availability. Potential failures are not just detected in advance by intelligent switchgear, but in fact are also signaled by signal towers with SmartWire-DT.

Example: Savings in every step of the life cycle



Clearly LOVELIER!

An engaging design with smooth curves enhances the appeal of our new signal towers and, together with the control and signal units in the RMQ-Titan range of products, creates a standardized look for machines and systems.



Clearly LOUDER!

Acoustic modules with up to 8 selectable signals, as well as adjustable volume levels (up to 100 dB), make it possible to adapt perfectly to any environment.

Clearly BRIGHTER!



Signal towers indicate machine states by means of visual and acoustic signals. Accordingly, they must be easy to see from a distance, and the information they provide must be clear from the get-go. Orange has been added to the colors shown in order to comply with international standards. More importantly, Eaton has improved its signal towers exactly where it counts. High-performance LEDs provide a level of brightness that will be reliably seen even under extremely adverse conditions. Benefit from better attention-getting power, stronger brightness and higher volumes as well as multiple tone variants to identify faults unambiguously or even help prevent them from occurring at all.

Clearly MORE COMPACT!



Eaton signal towers have been designed with flexibility in mind so that they can be used regardless of adverse installation conditions, such as the lack of ceiling clearance and situations that require different signals on the right or left-hand side. Both signal tower sizes can also be installed vertically with up to 5 elements per side.

Clearly MORE FLEXIBLE!



Our new signal towers can be flexibly installed in any of 9 different ways. In addition to the option of mounting them on the side, there are various options for mounting the cup-shaped base directly, as well as a variety of tube mounting options. In addition, tubes with lengths of 100, 250, and 400 mm make mounting even more flexible.

Clearly STURDIER!

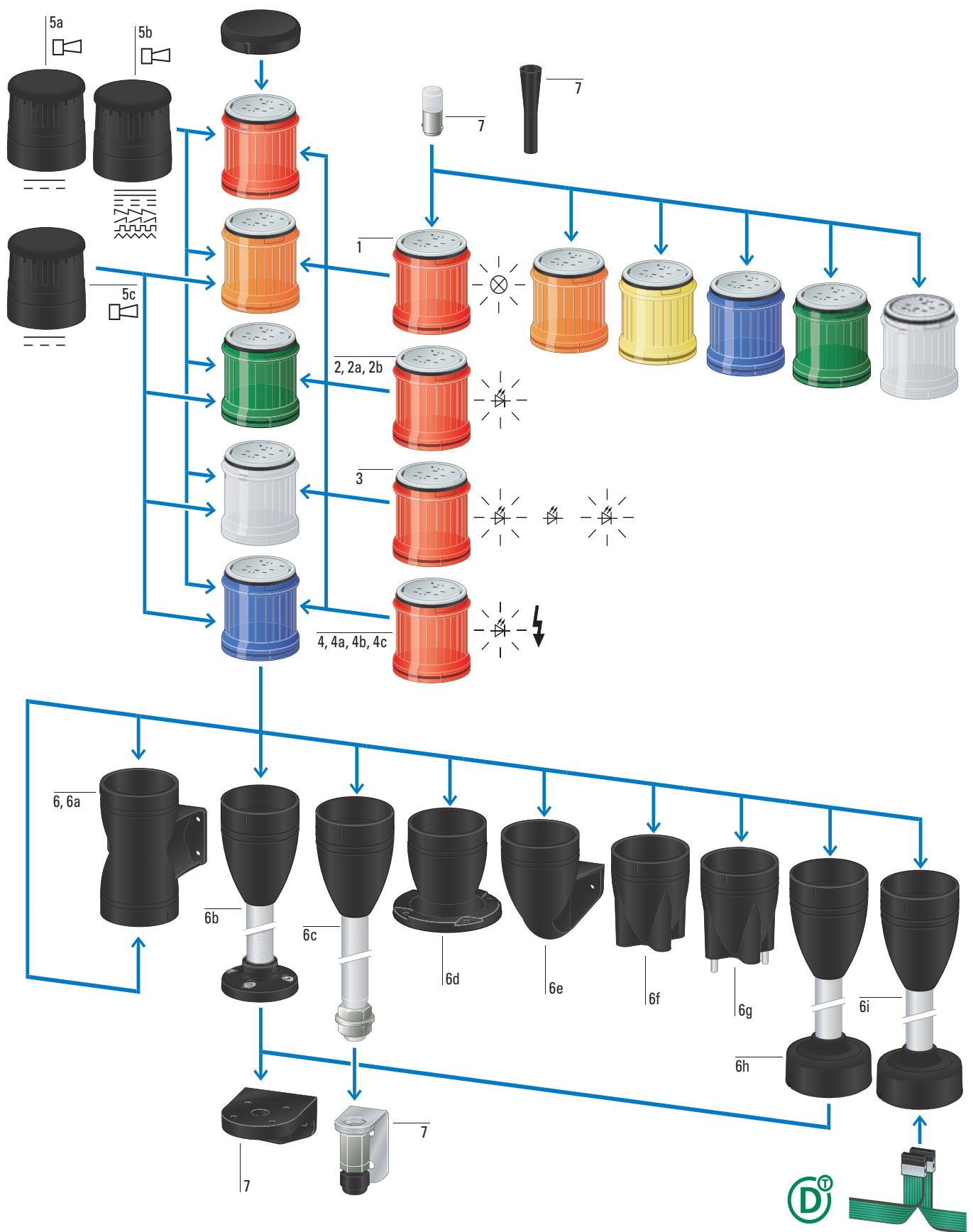
With a high IP66 degree of protection, our signal towers provide perfect protection even against water jets from all directions. These signal towers are meant for worldwide use. Type approvals and certifications for Europe and North American have already been obtained, and ship classifications and CCC are currently pending.



Mounting and dismantling of protruding signal towers can be a major effort, particularly when transporting machines. The new rapid-mount system speeds up that process by up to 50%.

The transportation cover protects cables and terminals.

System overview



Card for filament lamp, continuous light	1	Card with high-output LED	4b	Base module	6
Without light element (filament lamp with BA15d socket)		with High Performance LED		Easy mounting with bayonet mount	
Easy mounting with bayonet mount		Flashing frequency 1.4 Hz		Degree of protection IP66	
Modules can be arranged in any order		→ page 11		Including cover plate	
Degree of protection IP66				With spring-cage terminals	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Card with high-output LED	4c	Base for mounting on both sides	6a
Operating mode: 100 % DF (duty factor)		with High Performance LED with various strobe sequences		→ page 14	
→ page 11		Flashing frequency 1 - 2.6 Hz			
		→ page 11		Base with aluminium tube and plastic foot	6b
Card with LED, continuous light	2	Acoustic module	5	Aluminium tube 100 mm, 250 mm or 400 mm	
Easy mounting with bayonet mount		Easy mounting with bayonet mount		→ page 13	
Modules can be arranged in any order		Set up as topmost module		Base with aluminum tube and banjo bolt	6c
Degree of protection IP66		Max. 2 x 1 modules that can be actuated separately (two with base module SL7-CB-D only)		Aluminium tube 100 mm, 250 mm or 400 mm	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Permanently integrated cover plate		→ page 13	
Operating mode: 100 % DF (duty factor)		Degree of protection IP66		Base with external fixing holes	6 d
		Operating mode: 100 % DF (duty factor)		→ page 13	
Card with LED	2a	sound pressure 100 db, adjustable with internal potentiometer		One-sided base with bracket	6e
with LED		Acoustic module	5a	→ page 14	
→ page 8		Continuous tone or pulsed tone, adjustable with internal dip switches		Base with internal (on the inside) fixing holes	6f
Card with high-output LED	2b	Frequency: 2800 Hz		→ page 13	
with High Performance LED		→ page 12		Base with built-in (pre-assembled) fixing screws	6g
→ page 11		Acoustic module	5b	→ page 13	
Card with LED, flashing light	3	Multi-tone (8 tones) adjustable with internal dip switch		Base with base adapter for slipping onto place (rapid mounting and wiring system)	6h
with LED		Frequency 500 - 2700 Hz		Aluminium tube 100 mm, 250 mm or 400 mm	
Easy mounting with bayonet mount		→ page 12		→ page 13	
Modules can be arranged in any order		Acoustic module	5c	Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	6i
Degree of protection IP66		Continuous tone or pulsed tone; can be actuated externally; takes up 2 inputs (2 modules)		Aluminium tube 100 mm	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)		Frequency: 2800 Hz		→ page 13	
Operating mode: 100 % DF (duty factor)		→ page 12		Accessory Considerations	7
Flashing frequency 2 Hz				Mounting brackets	
→ page 9				Including mounting bracket M20 cable gland	
Card with LED, strobe light	4			Tool for replacing filament lamp	
Easy mounting with bayonet mount				Filament lamp	
Modules can be arranged in any order				→ page 14	
Degree of protection IP66					
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)					
Operating mode: 100 % DF (duty factor)					
Card with LED	4a				
with LED					
Flashing frequency 1.4 Hz					
→ page 10					

Ordering

	Rated operational voltage U_e V	Number of modules	Colour	Function	Part no. Article no.	Price see price list	Std. pack				
Complete devices											
	24 V AC/DC	2			SL7-100-L-RG-24LED 171424		1 off 				
		3			SL7-100-L-RYG-24LED 171425						
		Customised complete unit									
		Order on request	-		-	-		-	SL7-COMBINATION 2011955		1 off 

	Rated operational voltage U _e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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				

Notes

Information relevant for export to North America



Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2
No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No. E29184
UL Category Control No. NKCR

CSA File No.
CSA Class No.
North America
Certification
Degree of Protection

UL report applies to both US and Canada
NKCR7

UL listed, certified by UL for use in Canada
UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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		

Notes

Information relevant for export to North America

 	Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
	UL File No.	E29184
	UL Category Control No.	NKCR
	CSA File No.	UL report applies to both US and Canada
	CSA Class No.	NKCR7
	North America Certification	UL listed, certified by UL for use in Canada
	Degree of Protection	UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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		

Notes

Information relevant for export to North America



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UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

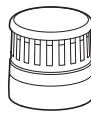
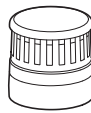
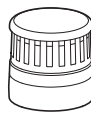
		Rated operational voltage U _e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card with high-output LED							
	Continuous light IP66 High-performance LED for maximum signaling effect High Performance LED	24 V AC/DC			SL7-L24-B-HP 171427		1 off 
					SL7-L24-G-HP 171428		
					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		
Card for filament lamp							
	Continuous light IP66 without light elements Filament lamp max. 7 W Filament bulbs → page 14	< 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		

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

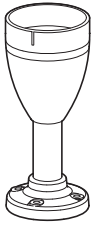
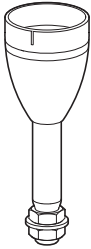
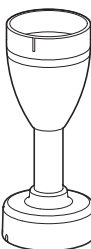
	Rated operational voltage U_e V	Rated operational current I_e mA	Colour	Function	Sound type	Part no. Article no.	Price see price list	Std. pack
Acoustic modules								
Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 100 db, adjustable with internal potentiometer. $f = 2800$ Hz Place only at the highest position on a pole 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 pole 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 pole 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		

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
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UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Tube length	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules							
for horizontal mounting, including cover, max. 5 modules							
	Base with aluminium tube and plastic foot Spring-loaded 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		
	Base with aluminum tube and banjo bolt Spring-loaded terminals	100 mm			SL7-CB-T-100 171452		
		250 mm			SL7-CB-T-250 171453		
		400 mm			SL7-CB-T-400 171454		
	Base with internal (on the inside) fixing holes Spring-loaded terminals	-	black		SL7-CB-IMH¹⁾ 171447		
	Base with built-in (pre-assembled) fixing screws Spring-loaded terminals	-			SL7-CB-IMS 171448		
	Base with external fixing holes Spring-loaded terminals	-			SL7-CB-EMH 171449		
	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		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 5 modules max. 0.3 A per module External power supply connectable (24 V DC) Configurable with SWD-Assist (planning and ordering help) Further technical data, see manual MN05006001Z.	100 mm			SL7-SWD²⁾ 171459		

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

1) Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 1

2) Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
North America Certification	Request filed for UL and CSA
Degree of Protection	UL Type 4, 4X, 13

			Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic modules							
for vertical mounting, including cover, max. 5 modules							
	One-sided base with bracket Spring-loaded terminals	black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-FW 171450		1 off  	
for vertical mounting on both sides, including cover, max. 2 x 5 modules							
	Base with external fixing holes Spring-loaded terminals	black	SL7-L-... SL7-BL-... SL7-FL-... SL7-AP-...	SL7-CB-D 171451		1 off  	

lifespan	Rated operational voltage	Power	For use with	Part no. Article no.	Price see price list	Std. pack
h	U _e V					
Mounting brackets						
for vertical mounting, Plastic, Fixing screws included as standard						
	-	-	SL4-PIB-... SL4-FMS-... SL7-CB-... SL7-FMS-...	SL7/4-FW 171446		1 off  
Including mounting bracket M20 cable gland						
for vertical mounting, Metal, Gasket included as standard						
	-	-	SL4-PIB-T-... SL7-CB-T-...	SL7/4-FW-T 171455		1 off  
Tool for replacing filament lamp						
	-	-	-	SL7/4-BET 171294		1 off
Filament bulbs						
Mounting: Ba15d						
	> 3000	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	

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
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Degree of Protection	UL Type 4, 4X, 13

Technical data

			SL7-...
General			
Standards			IEC/EN 60947-5-1
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			As required
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
IEC degree of protection			IP66 IEC/EN 60529
Protection type UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Cap colour			blue, green, red, clear, yellow, orange
Ambient temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacity			
Solid or flexible conductor		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/pollution degree			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
Light elements			LED			High Performance LED			Filament lamp max. 7 W
Mounting			-	-	-	-	-	-	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	-	-	-	-
230/240V AC	A		0.027 - 0.028	0.030 - 0.031	0.010	-	-	-	-
Power consumption			-	-	-	-	-	-	Max. 7 W with the specified voltages
Voltage levels			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			Internal; 1 pole DIP	can be externally actuated	Internal; 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
230/240V AC		A	0.043	0.043	0.043
Voltage levels			24 V AC/DC $\pm 10\%$ 110/120 V AC $\pm 10\%$ 230/240 V AC $\pm 10\%$		
Weight		g	102		

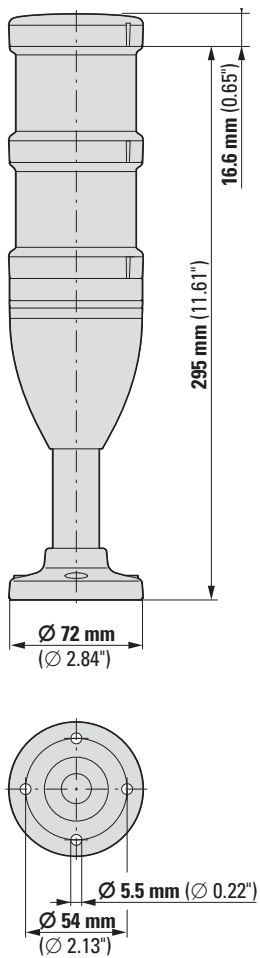
Table of sound types

	Sound type	DIP switch settings	Frequency Hz	Diagram	Repeat rate	Special application	Max. volume dB
SL7-AP...	Continuous tone	ON	approx. 2800		-	-	100
	Pulsed tone	ON	approx. 2800		approx. 2 Hz	-	100
SL7-AP...-E	Continuous tone	-	approx. 2800		-	-	100
	Pulsed tone	-	approx. 2800		approx. 2 Hz	-	100
SL7-AP...-M	Continuous tone	ON	2700		-	-	100
	Continuous tone	ON	1350		-	-	100
	Pulsed tone	ON	2700		250 ms on, 250 ms off	-	100
	Pulsed tone	ON	1350		250 ms on, 250 ms off	-	100
	falling	ON	1200 - 500		1 Hz	Evacuation, Germany, DIN3304-3	98
	Rising	ON	500 - 1200		Rising 3 s, 0.5 s off	Netherlands NEN 2575:2000	98
	Alternating	ON	800 - 1000		2 Hz		94
	rising/falling	ON	500 - 1500		10 Hz		94

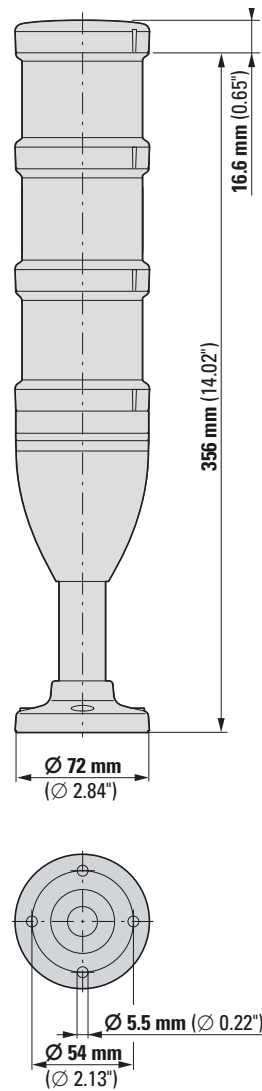
Dimensions

Complete devices

SL7-100-L-RG-24LED

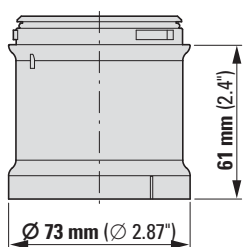


SL7-100-L-RYG-24LED



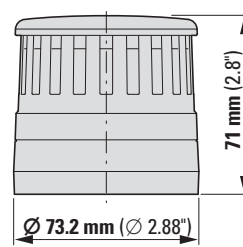
Light modules

SL7-(B)(F)L ...



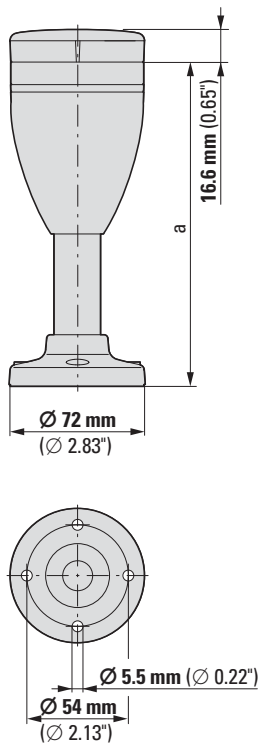
Acoustic modules

SL7-AP...



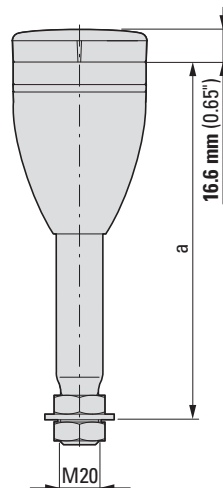
Basic modules

SL7-CB-...



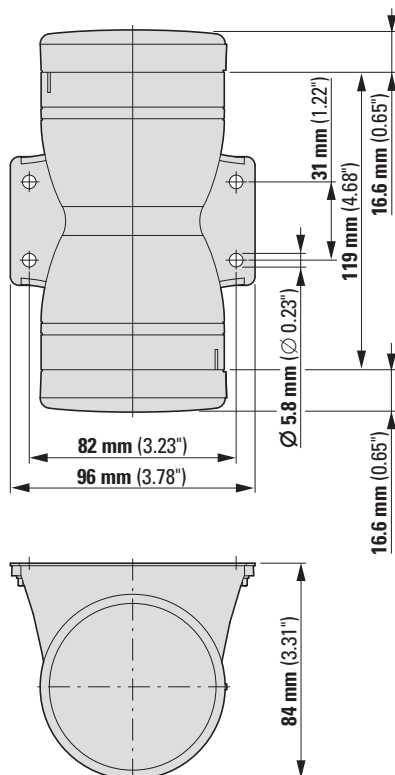
Part no.	a mm (inch)
SL7-CB-100	171 (6.73)
SL7-CB-250	321 (12.64)
SL7-CB-400	471 (18.54)

SL7-CB-T-...

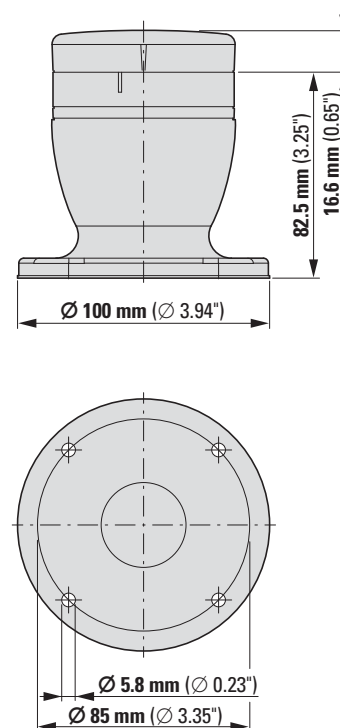


Part no.	a mm (inch)
SL7-CB-T-100	190 (7.48)
SL7-CB-T-250	340 (13.38)
SL7-CB-T-400	490 (19.29)

SL7-CB-D

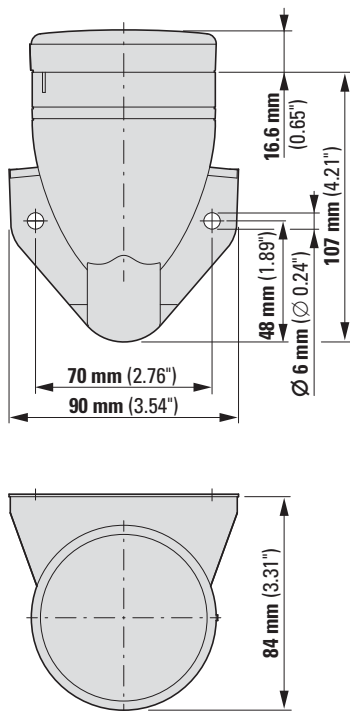


SL7-CB-EMH

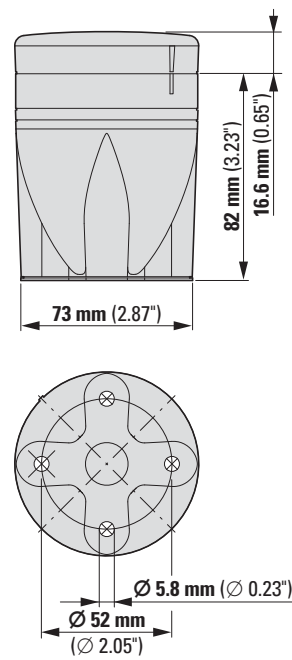


Basic modules

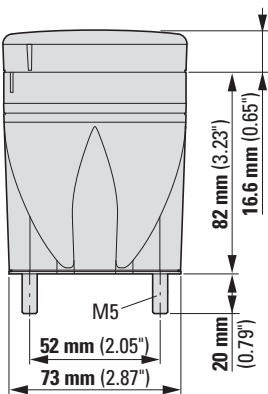
SL7-CB-FW



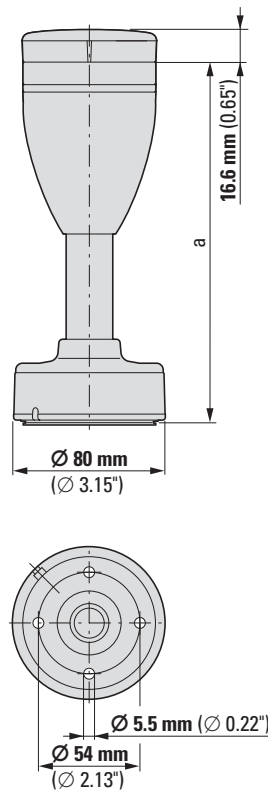
SL7-CB-IMH



SL7-CB-IMS



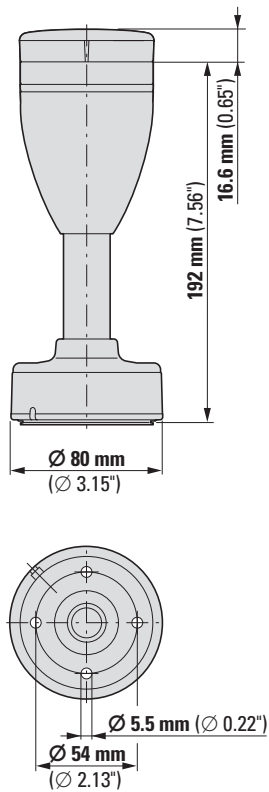
SL7-FMS-...



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

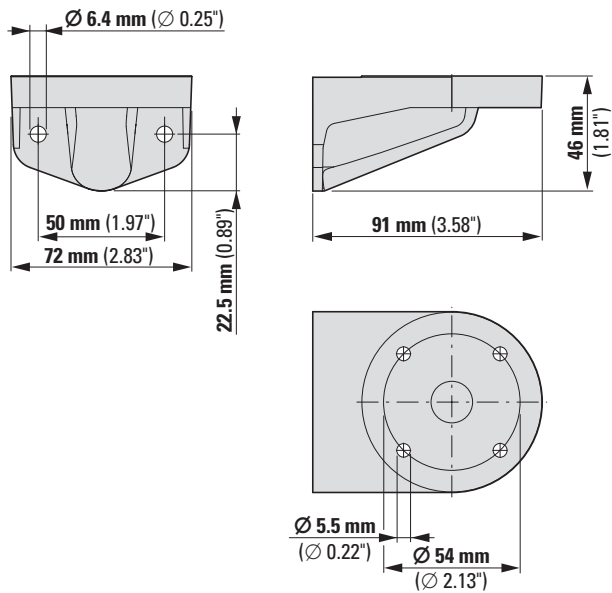
Base module for connecting to SmartWire-DT®

SL7-SWD

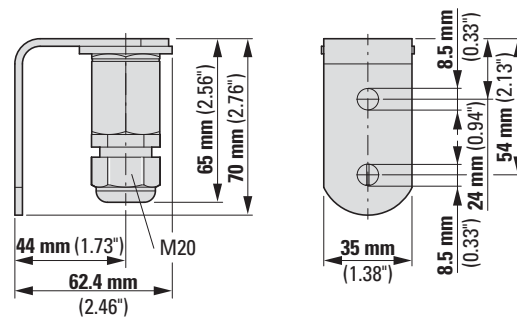


Mounting brackets

SL7/4-FW

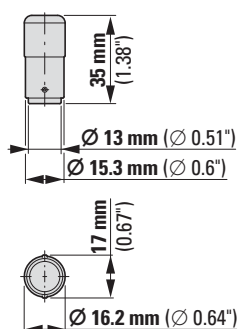


SL7/4-FW-T



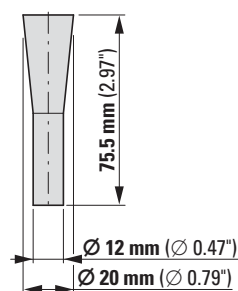
Filament bulbs

SL7-L12

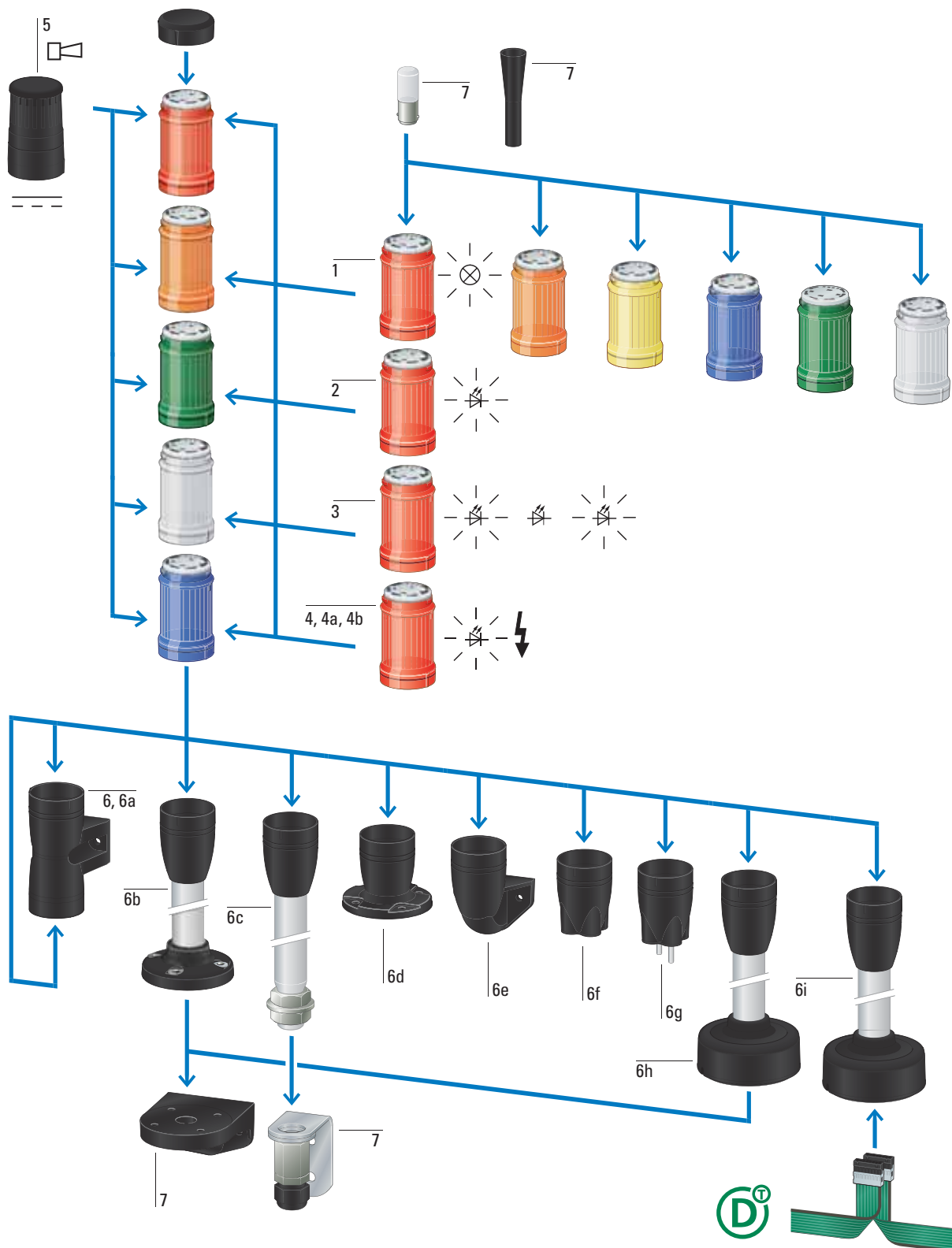


Tool for replacing filament lamp

SL7/4-BET



System overview

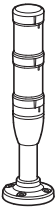


Card for filament lamp, continuous light	1
Without light element (filament lamp with BA15d socket)	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Degree of protection IP66	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Operating mode: 100 % DF (duty factor)	
→ page 27	
Card with LED, continuous light	2
with LED	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Degree of protection IP66	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Operating mode: 100 % DF (duty factor)	
→ page 24	
Card with LED, flashing light	3
with LED	
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Degree of protection IP66	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Operating mode: 100 % DF (duty factor)	
Flashing frequency 2 Hz	
→ page 25	
Card with LED, strobe light	4
Easy mounting with bayonet mount	
Modules can be arranged in any order	
Degree of protection IP66	
Max. 2 x 5 modules that can be actuated individually (two with base module SL7-CB-D only)	
Operating mode: 100 % DF (duty factor)	
Card with LED	4a
with LED	
Flashing frequency 1.4 Hz	
→ page 26	
Card with LED	4b
With LED for effective signaling effect with various flashing sequences	
Flashing frequency approx. 1 -2.6 Hz	
→ page 26	

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 modules that can be individually actuated (two with base module SL7-CB-D only)	
Permanently integrated cover plate	
Degree of protection IP66	
Operating mode: 100 % DF (duty factor)	
→ page 27	
Base module	6
Easy mounting with bayonet mount	
Degree of protection IP66	
Including cover plate	
with Push in terminals	
Base for mounting on both sides	6a
→ page 29	
Base with aluminium tube and plastic foot	6b
Aluminium tube 100 mm, 250 mm or 400 mm	
→ page 28	
Base with aluminum tube and banjo bolt	6c
Aluminium tube 100 mm, 250 mm or 400 mm	
→ page 28	
Base with external fixing holes	6 d
→ page 28	
One-sided base with bracket	6e
→ page 29	
Base with internal (on the inside) fixing holes	6f
→ page 28	
Base with built-in (pre-assembled) fixing screws	6g
→ page 28	
Base with base adapter for slipping onto place (rapid mounting and wiring system)	6h
Aluminium tube 100 mm, 250 mm or 400 mm	
→ page 28	

Base with base adapter for slipping onto place (rapid mounting and wiring system) and SmartWire-DT connection	6i
Aluminium tube 100 mm	
→ page 28	
Accessory Considerations	7
Mounting brackets	
Including mounting bracket M20 cable gland	
Tool for replacing filament lamp	
Filament lamp	
→ page 29	

Ordering

	Rated operational voltage U _e V	Number of modules	Colour	Function	Part no. Article no.	Price see price list	Std. pack				
Complete devices											
	24 V AC/DC	2			SL4-100-L-RG-24LED 171295		1 off 				
		3			SL4-100-L-RYG-24LED 171296						
		Customised complete unit									
		Order on request	-		-	-		-	SL4-COMBINATION 2011956		1 off 

	Rated operational voltage U _e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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		

Notes

Information relevant for export to North America



Product Standards IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
 UL File No. E29184
 UL Category Control No. NKCR

CSA File No.
 CSA Class No.
 North America
 Certification
 Degree of Protection

UL report applies to both US and Canada
 NKCR7

UL listed, certified by UL for use in Canada
 UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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		

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card 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		

Notes

Information relevant for export to North America



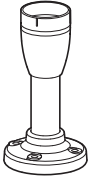
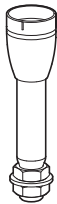
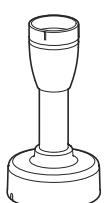
Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Rated operational voltage U_e V	Colour	Function	Part no. Article no.	Price see price list	Std. pack
Card for filament lamp							
	Continuous light IP66 without light elements Filament lamp max. 4 W Filament bulbs → page 29	< 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		

	Rated operational voltage U_e V	Rated operational current I_e mA	Colour	Function	Sound type	Part no. Article no.	Price see price list	Std. pack
Acoustic modules								
Continuous tone or pulsed tone, adjustable with internal dip switches. Sound pressure 80 dB. $f = 4000$ Hz Place only at the highest position on a pole IP66								
	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		

Notes**Information relevant for export to North America**

Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

		Tube length	Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic 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		
	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		
	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-IMH¹⁾ 171300		
	Base with built-in (pre-assembled) fixing screws Push in terminals	-			SL4-PIB-IMS 171301		
	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		
	Base with base adapter for slipping onto place (rapid mounting and wiring system) Blade terminal SWD4-8MF2 max. 5 modules max. 0.3 A per module External power supply connectable (24 V DC) Configurable with SWD-Assist (planning and ordering help) Further technical data, see manual MN05006001Z.	100 mm			SL4-SWD²⁾ 171311		

Notes

Information relevant for export to North America



Product Standards IEC/EN 60947-5-1;
UL 508; CSA-C22.2
No. 14-10; CSA-C22.2
No. 94-91; CE marking

UL File No. E29184
UL Category Control No. NKCR
CSA File No. UL report applies to both
US and Canada
NKCR7

CSA Class No. North America
Certification UL listed, certified by UL
for use in Canada

Degree of Protection UL Type 4, 4X, 13

¹⁾ Product Standards IEC/EN 60947-5-1;
UL 508; CSA-C22.2
No. 14-10; CSA-C22.2
No. 94-91; CE marking

UL File No. E29184
UL Category Control No. NKCR
CSA File No. UL report applies to both
US and Canada
NKCR7

CSA Class No. North America
Certification UL listed, certified by UL
for use in Canada

Degree of Protection UL Type 1

²⁾ Product Standards IEC/EN 60947-5-1;
UL 508; CSA-C22.2
No. 14-10;
CSA-C22.2
No. 94-91;
CE marking

North America
Certification Request filed for
UL and CSA

Degree of Protection UL Type 4, 4X, 13

			Colour	For use with	Part no. Article no.	Price see price list	Std. pack
Basic 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  
	lifespan	Rated operational voltage	Power	For use with	Part no. Article no.	Price see price list	Std. pack
	h	U _e V					
Mounting brackets							
for vertical mounting, Plastic, Fixing screws included as standard							
	-	-	-	SL4-PIB-... SL4-FMS-... SL7-CB-... SL7-FMS-...	SL7/4-FW 171446		1 off  
Including mounting bracket M20 cable gland							
for vertical mounting, Metal, Gasket included as standard							
	-	-	-	SL4-PIB-T-... SL7-CB-T-...	SL7/4-FW-T 171455		1 off  
Tool for replacing filament lamp							
	-	-	-	-	SL7/4-BET 171294		1 off
Filament bulbs							
Mounting: Ba15d							
	> 3000	12 V 24 V 120 V 230 V	4 W	SL4-L-...	SL4-L12 171382 SL4-L24 171383 SL4-L120 171384 SL4-L230 171385		1 off

Notes

Information relevant for export to North America



Product Standards	IEC/EN 60947-5-1; UL 508; CSA-C22.2 No. 14-10; CSA-C22.2 No. 94-91; CE marking
UL File No.	E29184
UL Category Control No.	NKCR
CSA File No.	UL report applies to both US and Canada
CSA Class No.	NKCR7
North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection	UL Type 4, 4X, 13

Technical data

			SL4-...
General			
Standards			IEC/EN 60947-5-1
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60069-2-30
Mounting position			As required
Mechanical shock resistance		g	> 15 according to IEC 60068-2-27 Shock duration 11 ms Sinusoidal
IEC degree of protection			IP66 IEC/EN 60529
Protection type UL			Type 4, 4X, 13
Material			Enclosure: Polycarbonate (PC), black Cap: Polycarbonate (PC)
Cap colour			blue, green, red, clear, yellow, orange
Ambient temperature		°C	-30 - +60
Number of signal elements			Max. 5 with standard base Max. 10 with base for mounting on both sides
Terminal capacity			
Solid or flexible conductor		mm ²	0.2 - 1.5
Solid or flexible conductor, 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/pollution degree			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
Light elements			LED				Filament lamp max. 4 W
Mounting			-	-	-	-	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 /240V AC	A		0.030	0.030	0.10	-	-
Power consumption			-	-	-	-	Max. 4 W with the specified voltages
Voltage levels			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				> 3000
Weight	g		45				

			SL4-AP...
Acoustic modules			
Type of tone			Continuous or pulsed tone
Types of sound			2 versions, table of sound types
Sound setting			Internal; 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
230/240V AC		A	0.021
Voltage levels			24 V AC/DC $\pm 10\%$ 110/120 V AC $\pm 10\%$ 230/240 V AC $\pm 10\%$
Weight		g	43

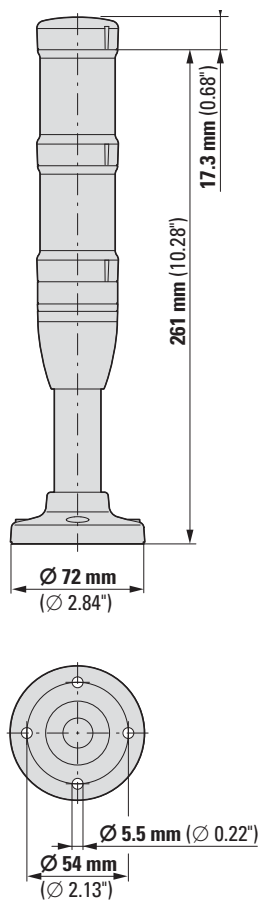
Table of sound types

	Sound type	DIP switch settings	Frequency Hz	Diagram	Repeat rate	Special application	Max. volume dB
SL4-AP...	Continuous tone	ON 	approx. 4000		-	-	80
	Pulsed tone	ON 	approx. 4000		approx. 2 Hz	-	80

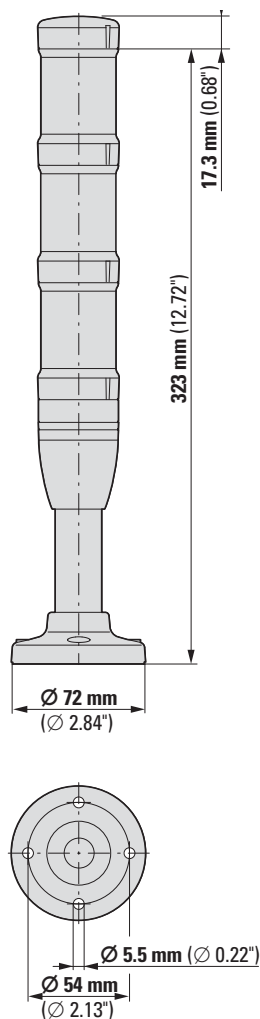
Dimensions

Complete devices

SL4-100-L-RG-24LED

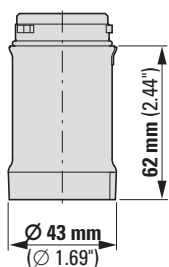


SL4-100-L-RYG-24LED



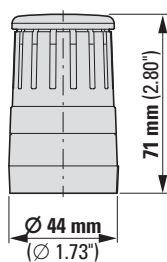
Light modules

SL4-(B)(F)L ...



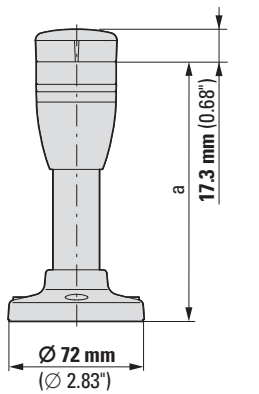
Acoustic modules

SL4-AP...

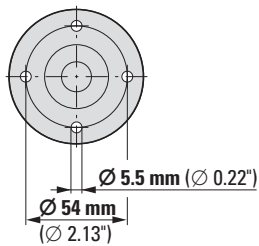


Basic modules

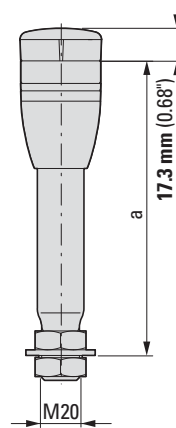
SL4-PIB-...



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

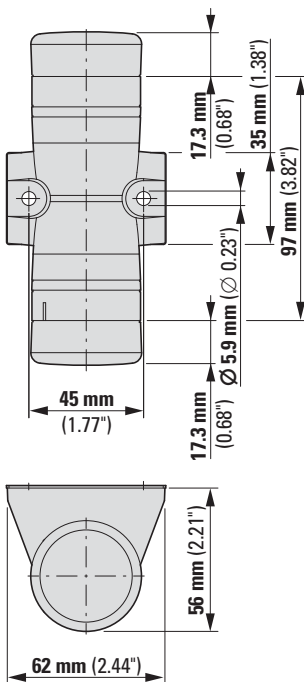


SL4-PIB-T-...

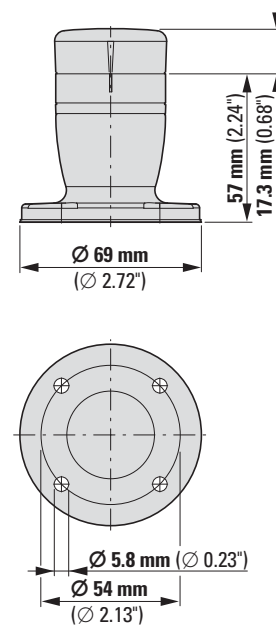


Part no.	a mm (inch)
SL4-PIB-T-100	150 (5.90)
SL4-PIB-T-250	300 (11.81)
SL4-PIB-T-400	450 (17.72)

SL4-PIB-D

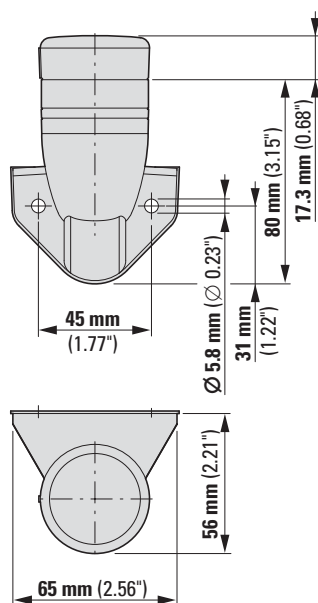


SL4-PIB-EMH

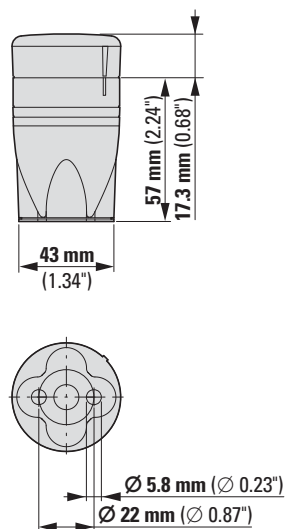


Basic modules

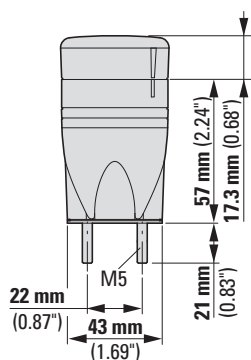
SL4-PIB-FW



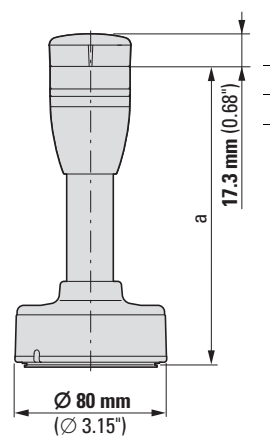
SL4-PIB-IMH



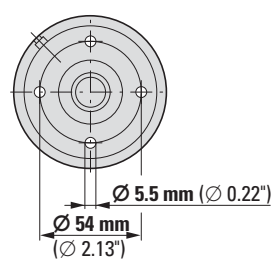
SL4-PIB-IMS



SL4-FMS-...

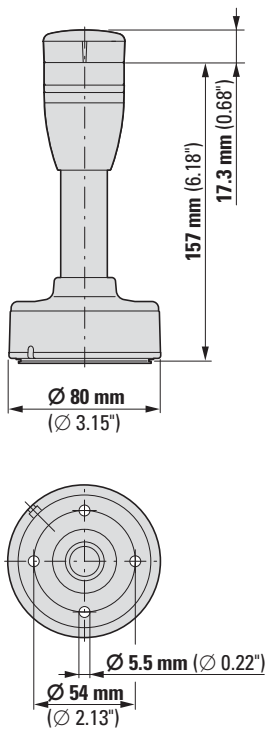


Part no.	a mm (inch)
SL4-FMS-100	157 (6.18)
SL4-FMS-250	307 (12.09)
SL4-FMS-400	457 (17.99)



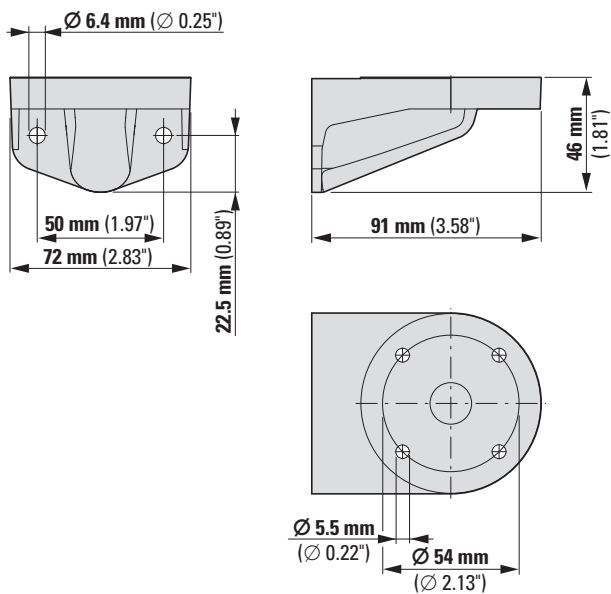
Base module for connecting to SmartWire-DT®

SL4-SWD

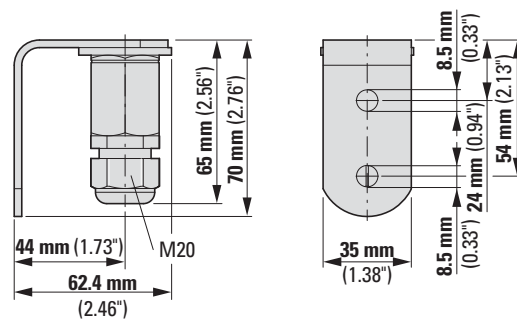


Mounting brackets

SL7/4-FW

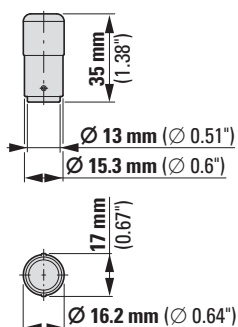


SL7/4-FW-T



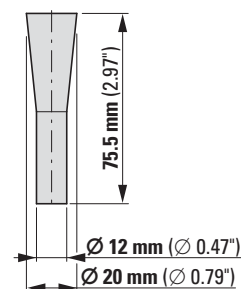
Filament bulbs

SL7-L12



Tool for replacing filament lamp

SL7/4-BET

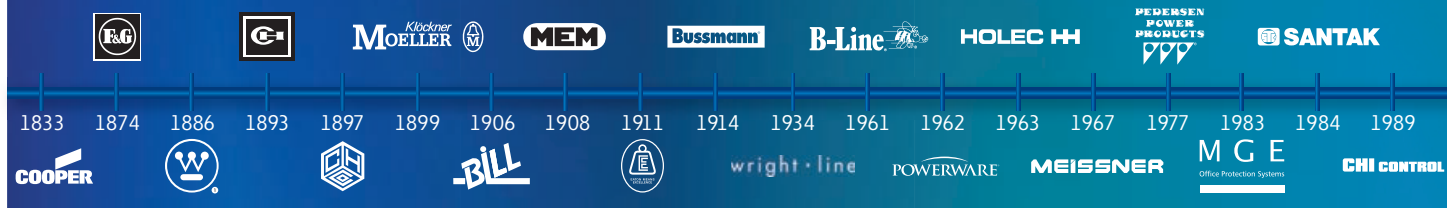


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