



Linear Luminaire with LED

Series EXLUX 6402/2



Contents

1	General Information	3
1.1	Manufacturer	3
1.2	Information regarding the operating instructions	3
1.3	Conformity with standards and regulations	3
2	Explanation of the symbols	4
2.1	Symbols in these operating instructions	4
2.2	Warning notes	4
2.3	Symbols on the device	5
3	Safety notes	5
3.1	Operating instructions storage	5
3.2	Safe use	5
3.3	Intended Use	5
3.4	Modifications and alterations	5
4	Function and device design	6
4.1	Function	6
4.2	Device design	6
5	Technical data	8
6	Transport and storage	11
7	Mounting and installation	12
7.1	Dimensions / fastening dimensions	12
7.2	Mounting / dismounting, operating position	13
7.3	Installation	16
8	Commissioning	19
9	Maintenance and repair	20
9.1	Maintenance	20
9.2	Repair	21
9.3	Returning the device	21
10	Disposal	21
11	Accessories and Spare parts	21



1 General Information

1.1 Manufacturer

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1.2 Information regarding the operating instructions

ID-No.: 243137 / 640260300020
Publication Code: 2015-12-07-BA00-III-en-04





The original instructions are the English edition.
They are legally binding in all legal affairs.

1.3 Conformity with standards and regulations

See certificates and EC Declaration of Conformity: www.stahl-ex.com.
The device has IECEx approval. See IECEx homepage: <http://iecex.iec.ch/>

2 Explanation of the symbols




2.1 Symbols in these operating instructions

Symbol	Meaning
	Tips and recommendations on the use of the device
	General danger
	Danger due to explosive atmosphere
	Danger due to energised parts



2.2 Warning notes

Warning notes must be observed under all circumstances, in order to minimize the risk due to construction and operation. The warning notes have the following structure:

- Signalling word: DANGER, WARNING, CAUTION, NOTICE
- Type and source of danger/damage
- Consequences of danger
- Taking countermeasures to avoid the danger/damage

	DANGER Danger to persons Non-compliance with the instruction results in severe or fatal injuries to persons.
	WARNING Danger to persons Non-compliance with the instruction can result in severe or fatal injuries to persons.
	CAUTION Danger to persons Non-compliance with the instruction can result in light injuries to persons.
NOTICE Avoiding material damage Non-compliance with the instruction can result in material damage to the device and / or its environment.	

2.3 Symbols on the device

Symbol	Meaning
	CE marking according to the currently applicable directive.
	According to marking, device approved for hazardous areas.

3 Safety notes

3.1 Operating instructions storage

- Read the operating instructions carefully and store them at the mounting location of the device.
- Observe applicable documents and operating instructions of the devices to be connected.

3.2 Safe use


- Read and observe the safety notes in these operating instructions!
- Observe characteristic values and rated operating conditions on the rating and data plates!
- Observe additional information plates on the device!
- Use the device in accordance with its intended and approved purpose only!
- We cannot be held liable for damage caused by incorrect or unauthorized use or by non-compliance with these operating instructions.
- Before installation and commissioning, make sure that the device is not damaged!
- Work on the device (installation, maintenance, overhaul, repair) may only be carried out by appropriately authorized and trained personnel.


3.3 Intended Use

The luminaire 6402/2 is equipment

- for stationary mounting
- for use in Zones 21, 2, 22 and in the safe area
- can be used indoors and outdoors
- for lighting areas, work spaces and objects

3.4 Modifications and alterations

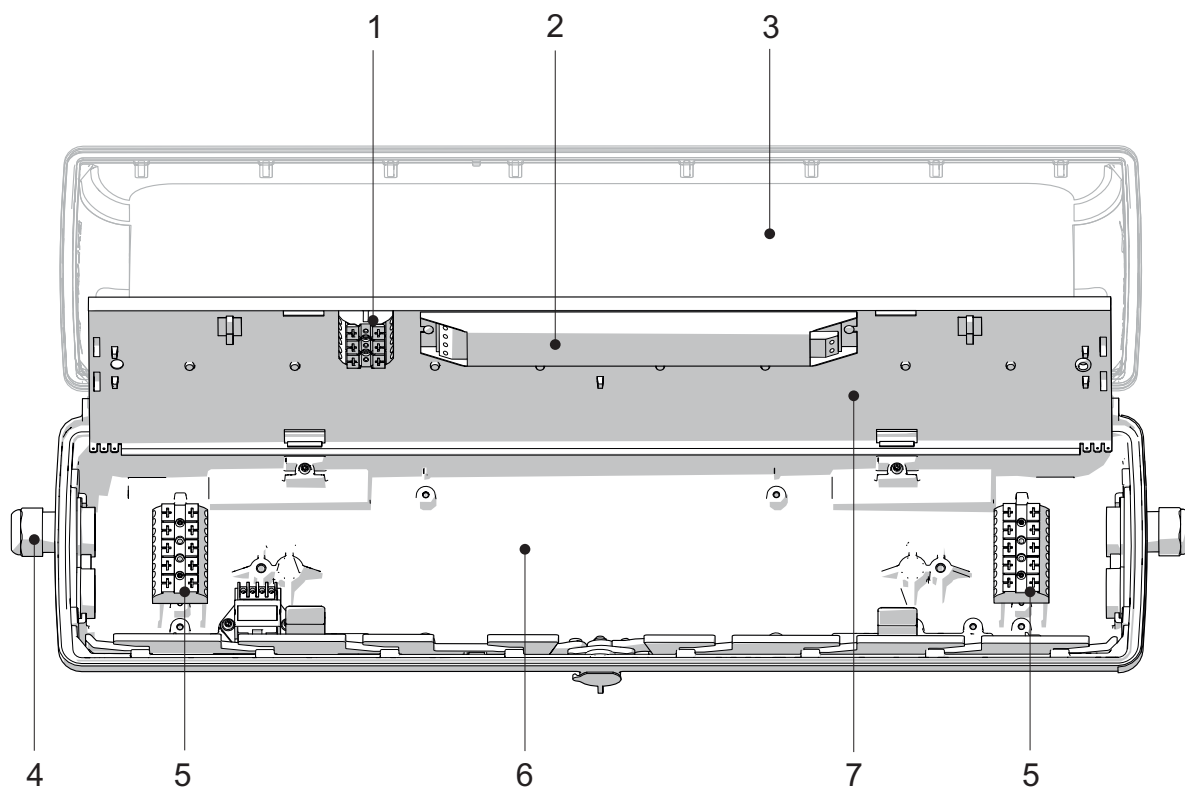
	DANGER
	Explosion hazard due to modifications and alterations to the device! Non-compliance results in severe or fatal injuries. <ul style="list-style-type: none"> • Do not modify or alter the device.

	DANGER
	<p>Explosion hazard due to improper use! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> Use the device only according to the operating conditions described in these operating instructions.

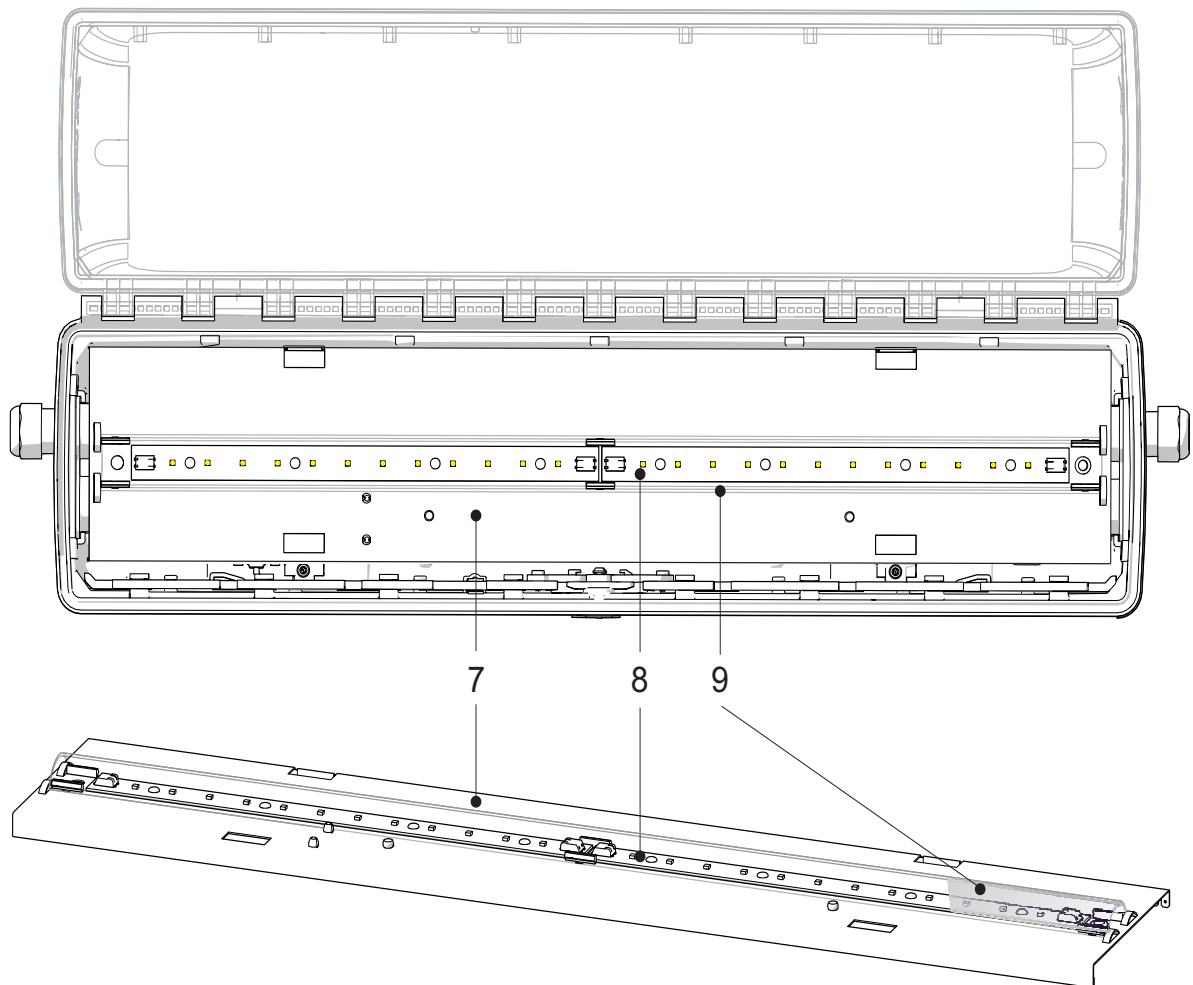
4.1 Function

- for lighting areas, work spaces and objects
- switching off the equipment by means of a central lock (optional) when the luminaire is opened

4.2 Device design



16346E00



16349E00

- | | |
|---|---------------------------------------|
| 1 - Connection terminal - mounting plate
(internal wiring) | 6 - Luminaire enclosure |
| 2 - Ballast | 7 - Mounting plate |
| 3 - Translucent cover | 8 - LED PCB |
| 4 - Cable gland | 9 - Diffuser (optional / accessories) |
| 5 - Connection terminal - luminaire
(customer wiring) | |

5 Technical data

Explosion Protection

Global (IECEx)

Gas and dust	IECEx IBE 14.0080X EX nA d op is IIC T4 Gc EX tb IIIC T100 °C Db EX tc IIIC T100 °C Dc
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Europe (ATEX)

Dust	IBExU14ATEX1292 ⊕ II 2 D Ex tb IIIC T100 °C Db
Gas and dust	IBExU14ATEXB020 X ⊕ II 3 G Ex nA d op is IIC T4 Gc ⊕ II 3 D Ex tc IIIC T100 °C Dc

Certifications and certificates

Certificates	IECEx, ATEX
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Technical Data

Electrical data

Ballast	AC: 220 ... 240 V ±10 %; 50 ... 60 Hz DC: 200 ... 250 V ±10 %
Inrush current	$I_{peak} = 53.5 \text{ A}$; $\Delta t = 124.8 \mu\text{s}$ maximum number of luminaires per miniature circuit breaker:

Type	10 A	16 A	20 A	25 A
B	8	12	16	20
C	13	21	27	33

Power factor	≥ 0.93
Degree of protection	IP66 / IP67 (IEC 60598)
Protection class	I (with internal PE connection)
Impact strength (IK code)	IK10 (IEC 62262)
Disconnection of the light	When opening the luminaire Switch with safety lock (optional); when opening the central lock all poles of the voltage supply to the ballast are disconnected; contacts of the switching element are positive opening, they can only be switched on again when the luminaire trough and the central locking system are closed.

Technical Data

Luminous characteristics

Luminous flux

	6402/21.2-.5...0	6402/22.4-.5...0
Power consumption [W]	28	52
Colour rendering [Ra]	≥ 80	≥ 80
Colour temperature [K]	5000	5000
without diffuser		
Luminous flux [lm]	2919	5375
Luminaire efficiency [lm/W]	105	103
Light output ratio [%]	85	85
with diffuser		
Luminous flux [lm]	2558	4670
Luminaire efficiency [lm/W]	92	90
Light output ratio [%]	75	76

Values apply to $T_a = +25\text{ °C}$.

Luminous flux decrease at $T_a = +55\text{ °C}$ to 85% of the nominal value.

Ambient conditions

Operating temperature range

-30 ... +55 °C

Storage

-30 ... +75 °C

Service life

Service life

	$T_a \leq 25\text{ °C}$	$T_a \leq 45\text{ °C}$	$T_a \leq 55\text{ °C}$
$L_{70}B_{10}C_{10}$	100,000 h	100,000 h	50,000 h

$L_xB_yC_z$

At the end of the service life:

- Luminous flux decrease to "x" percent
- up to "y" percent of all luminaires fall below "x"
- up to "z" percent of all luminaires break down completely

Technical Data

Mechanical data

Material

Enclosure

Material

Polyester resin, glass fibre-reinforced

Colour

colour grey, similar to RAL 7035

Seal

Silicone foam gasket in the lamp cover

Translucent cover

Polycarbonate

Luminaire locking

Central locking which can be opened/closed using a socket key M8 / wrench size 13, hinged lamp cover

Mounting / Installation

Cable glands

Standard luminaire

Plastic: 2 x M25 x 1.5 cable gland 8161 and
2 x M25 x 1.5 stopping plugs 8290 (enclosed)

Metal: 2 x metal plates M20 x 1.5 connected by means of PE for metal cable entries
Attention: cable entries must be ordered separately

Special: max. 4 bores for M20, M25, NPSM ½"
max. 2 bores for NPT ¾"

Metal cable glands: M20 x 1.5, M25 x 1.5; earthing of the metal cable entries by means of metal plates

Connection

Standard: Spring clamp terminals
5-pole: L1, L2, L3, N, PE (with through wiring)
Clamping range: 1 x 0.75 ... 4 mm² (solid/finely stranded)
(2 free clamping units for each pole available)

Special: Terminal block with covering
5-pole: L1, L2, L3, N, PE
Clamping range: 2x 0.75 ... 6 mm² (solid);
2 x 0.75 ... 4 mm² (finely and extra finely stranded)

Through wiring

Standard light fitting

with
Light fittings are equipped with internal through wiring.
Ingoing and outgoing leads can be connected to the opposite sides.
Terminals: see techn. data
Wiring cross section: 2.5 mm² for max. 16 A.

Optional

without
On the connection side, there are 2 bores M25 x 1.5 for cable entries for ingoing and outgoing wiring of the connection line
(ingoing and outgoing leads on one side).

Technical Data

Assembly

Standard luminaire

Standard: 2 x M8 insert nuts in the enclosure

Special: Mounting grooves in the enclosure for the use of fastening and ceiling rails for variable luminaire mounting (variable mounting distances for luminaires L = 700 mm: 320 ... 480 mm; L = 1310 mm: 670 ... 930 mm)


EN

6 Transport and storage

- Transport and store the device only in the original packaging.
- Store the device in a dry place (no condensation) and vibration-free.
- Do not drop the device.

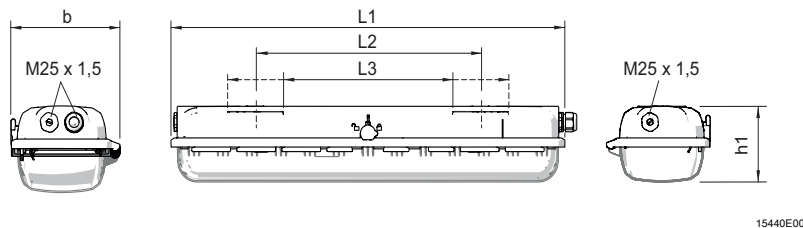
EN

7 Mounting and installation

	DANGER
	<p>Explosion hazard due to incorrect installation of the device! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Carry out installation strictly according to the instructions and national safety and accident prevention regulations to maintain the explosion protection. • Select and install the electrical device so that explosion protection is not affected due to external influences, i.e. pressure conditions, chemical, mechanical, thermal and electric impact such as vibration, humidity and corrosion (see IEC/EN 60079-14). • The device must only be installed by trained qualified personnel who is familiar with the relevant standards.

7.1 Dimensions / fastening dimensions

Dimensional Drawings (All Dimensions in mm [inches]) - Subject to Alterations






Dimensions	Luminaire	
	28 W	52 W
L1	700 [27.56]	1310 [51.57]
L2 ¹⁾	400 [15.75]	800 [31.50]
L3 ²⁾	320 ... 480 [12.60 ... 18.90]	670 ... 930 [26.38 ... 36.61]
b	184 [7.24]	184 [7.24]
h1	125 [4.92]	125 [4.92]

¹⁾ fixed mounting distance

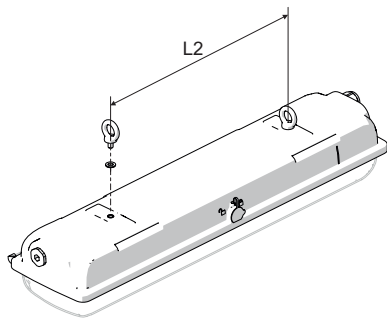
²⁾ variable mounting distance

EXLUX 6402 Standard luminaire

7.2 Mounting / dismantling, operating position

	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to electrostatic discharge Non-compliance results in severe or fatal injuries.</p> <p>Do not use the luminaire in strong charge generating environments!</p> <p>The following processes/activities should be avoided:</p> <ul style="list-style-type: none"> • accidental friction • particle currents
	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to inadmissible heating! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Avoid external heat sources and/or direct sunlight (risk of change of temperature class or change of maximum permissible surface temperature). • Do not exceed the maximum ambient temperature due to external heat sources (premature failure of equipment).
	<p>The luminaire is suitable for wall and ceiling mounting. Wall mounting must be performed with the central lock directed downwards. The mounting position with light emission upwards is not allowed when mounted outdoors.</p>

Suspension at fixed mounting points

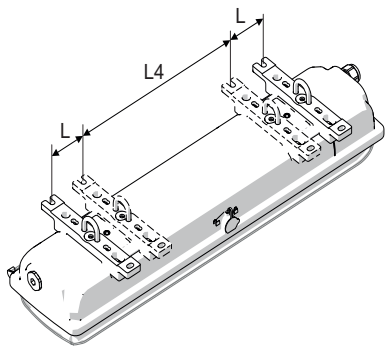


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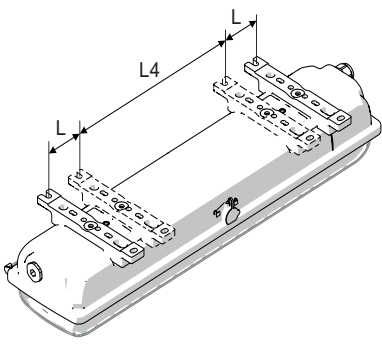
Version	L2 mm [inches]
28 W	400 [15.75]
52 W	800 [31.50]

max. screw-in depth 10 mm [0.39]

Suspension at moveable assembly parts



15442E00



15447E00

	Mounting bracket	Top rail
Version	L4 mm [inches]	L mm [inches]
28 W	320 [12.60]	80 [3.15]
52 W	670 [26.38]	130 [5.12]

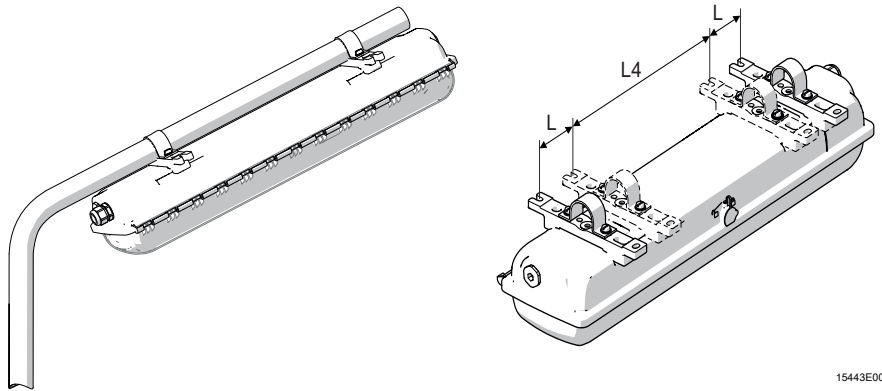
Lateral mounting pockets for variable suspension points.



When mounting the luminaire using top rails, ensure that the mounting surface is flat. Otherwise, the enclosure might be mounted in a warped/twisted way. The result is leakage of the luminaire and difficulties in replacing the translucent cover.

Pole mounting
Pole mounting using pipe clamps





15455E00

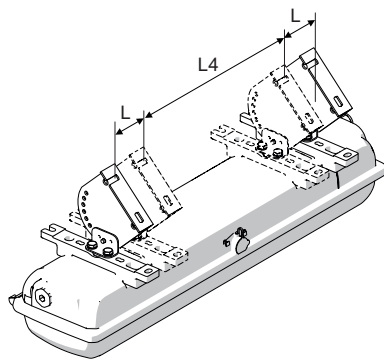
Version	L4 mm [inches]	L mm [inches]
28 W	320 [12.60]	80 [3.15]
52 W	670 [26.38]	130 [5.12]



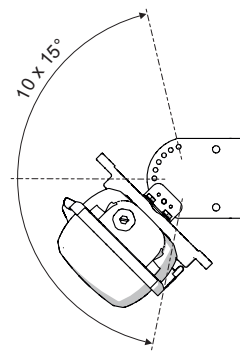
In case of point suspension using pipe clamps, R. STAHL Schaltgeräte GmbH does not guarantee the strength and tightness of the luminaire!

For pipe clamp mounting, use the solution of R. STAHL Schaltgeräte GmbH with integrated mounting rail providing reliable and stable four-point fixing!

Wall bracket mounting



15515E00



15517E00


Version	L4 mm [inches]	L mm [inches]
28 W	320 [12.60]	80 [3.15]

52 W | 670 [26.38] | 130 [5.12]

<p>i</p>	<p>When mounting the luminaire using top rails, ensure that the mounting surface is flat. Otherwise, the enclosure might be mounted in a warped/twisted way. The result is leakage of the luminaire and difficulties in replacing the translucent cover.</p>
<p>i</p>	<p>For pipe clamp mounting, use the solution of R. STAHL Schaltgeräte GmbH with integrated mounting rail providing reliable and stable four-point fixing! In case of point suspension using pipe clamps, R. STAHL Schaltgeräte GmbH does not guarantee the strength and tightness of the luminaire!</p>

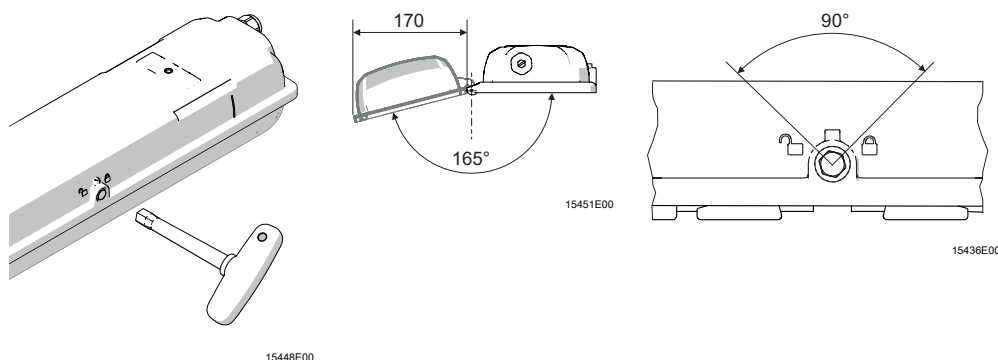
7.3 Installation

7.3.1 Opening and Closing of the Enclosure

	<p style="text-align: center;">DANGER</p> <p>Risk of electric shock! Risk of fatal injuries!</p> <ul style="list-style-type: none"> Luminaires without switch must not be opened when they are supplied with power (see information plate on the lock)!
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<p style="text-align: center;">NOTICE</p> <p>Danger due to electrostatic discharge. Electronic components can be destroyed if touched.</p> <ul style="list-style-type: none"> Do not touch the LED-PCBs!
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<p>i</p>	<p>Recommendation Opening and closing of the luminaire by using a socket wrench from R. STAHL Schaltgeräte GmbH.</p>
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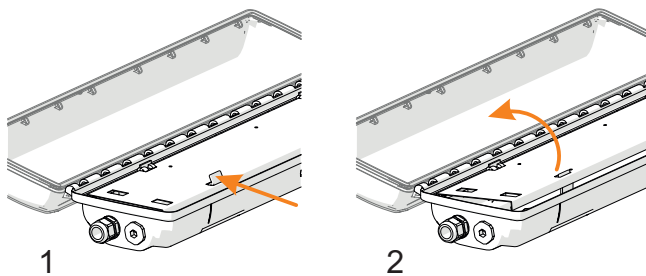
- Remove the closing cap of the central lock.
- Turn the central lock using a socket wrench M8, wrench size 13, by 90° to the left as far as it will go.
- Swivel down the translucent cover.
- Proceed in reverse order to close.
- The seal of the translucent cover must lie correctly on the sealing edge.
- Push the closing cap onto the central lock opening (dust protection).

Note:

- Version without switch: Disconnect the luminaire from the power supply and secure it against being switched on again.
- Version with switch: The luminaire is positively disconnected from the power supply by actuating the central lock.
- In open end position and with translucent cover swivelled down, a restart lock-out device prevents the central lock from being actuated.

Please do not use force!

When the translucent cover is closed, the central lock is released.

Opening and closing the reflector plate

- 1 Open the reflector plate by pressing the safety latch.
 - 2 Swivel down the reflector plate.
- When closing, flip up the reflector plate and snap it into place.

15512E00

7.3.2 Electrical connections**Electrical connection**

Observe the maximum clamping possibility of the connecting terminals (see chapter "Technical data").

For optional screw-type terminals, two conductors per clamping unit can be clamped (ingoing and outgoing wiring).

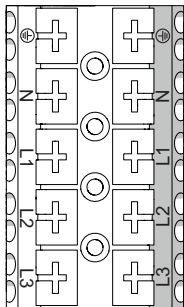
Note:

- Clamping must be carried out precisely!
- Do not clamp any part of the conductor insulation!
- Do not interchange the conductors!
- Observe the technical regulations when connecting the conductor!
- Clamp the conductor firmly.
- The terminal cover of optional screw-type terminals does not have to be removed to clamp the conductor!
- Optional screw-type terminals: Firmly tighten screws (tightening torque 2 Nm, for unused clamping units 0.7 Nm)!

Connection terminals

Standard:
Spring clamp terminals
up to 4 mm²

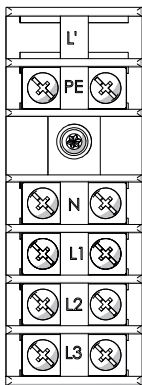
Stripping length:
10 ... 11 mm



15516E00

Optional:
Screw-type terminals
up to 4 mm² finely and
extra finely stranded,
and 6 mm² solid

Stripping length:
10 ... 11 mm



15438E00

L1, L2, L3 = Phase
N = Neutral conductor
PE = Protective conductor

Through wiring

NOTE	
Through wiring with 2.5 mm ² cross-section for max. 16 A.	

7.3.3 Cable Entries


The standard luminaire is delivered with 3 lead-in holes, 2 cable glands and 2 stopping plug.
Please observe the tightening torque for luminaires with installed cable glands and stopping plugs from R. STAHL Schaltgeräte GmbH.

	Tightening torque	
	Connection thread	Pressure screw
Cable gland 8161		
M20 x 1.5	2.3 Nm	1.5 Nm
M25 x 1.5	3.0 Nm	2.0 Nm
Stopping plugs 8290		
M20 x 1.5	1.0 Nm	



M25 x 1.5 1.5 Nm


Luminaires with approved cable glands and stopping plugs; not supplied by R. STAHL Schaltgeräte GmbH

	<p style="text-align: center;">WARNING</p> <p>Cable glands and stopping plugs which are not approved. Explosion protection is impaired!</p> <ul style="list-style-type: none"> • Only use separately certified cable glands and stopping plugs.
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Please note:

- the required dust resistance!
- the required type of protection!
- the required temperature resistance!
- the IP degree of protection according to the rating plate!
- the operating instructions of the cable glands and stopping plugs!
- the required tightening torques!
- the range of the permissible cable diameter!

8 Commissioning


	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to incorrect installation! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Check the device for proper installation and function before commissioning. • Comply with the national regulations.
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Before commissioning, ensure that


- the device has been installed according to regulations.
- the power supply voltage and the rated operational voltage are identical.
- the required cable diameter for cable glands has been used.
- the cable entries and stopping plugs have been securely tightened.
- the cables are correctly connected.
- the connection has been performed correctly.
- all screws and nuts are tightened according to regulations.
- the connection chamber is clean.
- the device is not damaged.
- no foreign bodies are inside the device.
- the device is sealed according to regulations.
- the LED assembly and the diffuser are clean.

<p style="text-align: center;">NOTE</p> <p>Condensation due to specific environmental and operating conditions condensation cannot be avoided completely.</p> <ul style="list-style-type: none"> • operate the luminaire continuously or periodically over extended periods of time! • avoid thermal bridges!

9 Maintenance and repair

	<p style="text-align: center;">WARNING</p> <p>Risk of electric shock or malfunctioning of the device due to unauthorized work! Non-compliance can result in severe injuries and material damage.</p> <ul style="list-style-type: none"> • Work performed on the device must only be carried out by appropriately authorized and qualified electricians.
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9.1 Maintenance

	<p>Observe the relevant national regulations in the country of use.</p>
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- Determine the type and extent of inspections in compliance with the relevant national regulations.
- Adapt inspection intervals to the operating conditions.

The following tests and measures must be carried out during regular maintenance.

Check

the permissible ambient temperature

the enclosure components for formation of cracks and damage.

its intended use

if the conductors are clamped properly
the cables for ageing and damage

the seals for ageing and damage

the inside and outside of the luminaire
for pollution

Measures

If exceeding the permissible ambient temperature or falling below the device must be taken out of operation.

Replace the exchangeable enclosure components. If the enclosure components are non-exchangeable, the device must be taken out of operation.

If the device is not used according to its intended use, it must be taken out of operation.

clamp loose conductors tightly.
replace damaged or aged cables.

replace damaged, aged and porous seals and completely change enclosure components with foamed seal.

clean the luminaire.


9.1.1 Cleaning

NOTE
<p>The luminaire is marked with the warning "Clean with damp cloth only".</p>

- Clean the device only with a damp cloth.
- Use water or mild cleaning agents.

- Do not use abrasive, scratching and aggressive detergents or solvents.

9.2 Repair

	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to improper repair! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Repair work on the devices must be performed only by R.STAHL Schaltgeräte GmbH.
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Repairs carried out on the mounting plate are not permitted. Replace the mounting plate completely in case of malfunction.

9.3 Returning the device

Use the "Service form" to return the device when repair/service is required.


On the internet site "www.stahl-ex.com" under "Downloads > Customer service":

- Download the service form and fill it out.
- Send the device along with the service form in the original packaging to R. STAHL Schaltgeräte GmbH.

10 Disposal

- Observe national and local regulations and statutory regulation regarding disposal.
- Separate materials when sending it for recycling.
- Ensure environmentally friendly disposal of all components according to the statutory regulations.

11 Accessories and Spare parts

NOTE	
<p>Malfunction or damage to the device due to the use of non-original components. Non-compliance can result in material damage.</p> <ul style="list-style-type: none"> • Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH. 	
	<p>For accessories and spare parts, see data sheet on our homepage www.stahl-ex.com.</p>

EG-Konformitätserklärung
EC Declaration of Conformity
Déclaration de Conformité CE



R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung, declares in its sole responsibility, déclare sous sa seule responsabilité,


dass das Produkt:
that the product:
que le produit:

LED Langfeldleuchte
LED Linear Luminaire
LED Luminaire Linéaire

Typ(en), type(s), type(s):

6402/2...-...-...-...

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) Directive(s) Directive(s)	Norm(en) Standard(s) Norme(s)
94/9/EG: ATEX-Richtlinie 94/9/EC: <i>ATEX Directive</i> 94/9/CE: <i>Directive ATEX</i>	EN 60079-0:2012 + A11:2013 EN 60079-31:2014
Kennzeichnung, marking, marquage:	
 II 2 D Ex tb IIIC T100 °C Db CE 0158	
EG-Baumusterprüfbescheinigung: EG Type Examination Certificate: Attestation d'examen CE de type:	IBExU 14 ATEX 1292 (IBExU Institut für Sicherheitstechnik GmbH Fuchsmühlenweg 7, 09599 Freiberg, Germany)
2004/108/EG: EMV-Richtlinie 2004/108/EC: <i>EMC Directive</i> 2004/108/CE: <i>Directive CEM</i>	EN 55015:2006 + A1:2007 + A2:2009 EN 61547:2009 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008
2011/65/EU: RoHS-Richtlinie 2011/65/EU: <i>RoHS Directive</i> 2011/65/UE: <i>Directive RoHS</i>	EN 50581:2012
Sonstige Normen: Other Standards: Autres normes:	EN 60598-1:2008 + A11:2009 EN 62471:2008

Waldenburg, 29. Juni 2015

Ort und Datum
Place and date
Lieu et date

i.V.


Dr. A. Kaufmann
Leiter BU Leuchten & Signalgeräte
Head of BU Lightings & Signalling
Directeur BU Eclairage & Appareils de signalisation

i.V.


J.-P. Rückgauer
Leiter Qualitätsmanagement
Director Quality Management
Directeur Assurance de Qualité

EG-Konformitätserklärung
EC Declaration of Conformity
Déclaration de Conformité CE



R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
 erklärt in alleiniger Verantwortung, *declares in its sole responsibility, déclare sous sa seule responsabilité,*

dass das Produkt: **LED Langfeldleuchte**
that the product: LED Linear Luminaire
que le produit: LED Luminaire Linéaire

Typ(en), type(s), type(s): **6402/2...-...-...-...**

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) Directive(s) Directive(s)	Norm(en) Standard(s) Norme(s)
94/9/EG: ATEX-Richtlinie 94/9/EC: ATEX Directive 94/9/CE: Directive ATEX	EN 60079-0:2012 + A11:2013 EN 60079-15:2010 EN 60079-28:2007 EN 60079-31:2014

Kennzeichnung, marking, marquage:

II 3 G Ex nA d op is IIC T4 Gc
 II 3 D Ex tc IIIC T100°C Dc



Baumusterprüfbescheinigung:
Type Examination Certificate:
Attestation d'examen de type:

IBExU 14 ATEX B020 X
 (IBExU Institut für Sicherheitstechnik GmbH
 Fuchsmühlenweg 7, 09599 Freiberg, Germany)

2004/108/EG: EMV-Richtlinie 2004/108/EC: EMC Directive 2004/108/CE: Directive CEM	EN 55015:2006 + A1:2007 + A2:2009 EN 61547:2009 EN 61000-3-2:2006 + A1:2009 + A2:2009 EN 61000-3-3:2008
2011/65/EU: RoHS-Richtlinie 2011/65/EU: RoHS Directive 2011/65/UE: Directive RoHS	EN 50581:2012
Sonstige Normen: Other Standards: Autres normes:	EN 60598-1:2008 + A11:2009 EN 62471:2008

Waldenburg, 29. Juni 2015

i.V.

Ort und Datum
Place and date
Lieu et date

Dr. A. Kaufmann
 Leiter BU Leuchten & Signalgeräte
 Head of BU Lightings & Signalling
 Directeur BU Eclairage & Appareils de signalisation

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