



Linear luminaire with LED

Series EXLUX 6002/4

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1 General information

1.1 Manufacturer

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1.2 Information regarding the operating instructions

ID no.: 265138 / 600260300080
Publication code: 2025-04-29·BA00·III·en·07

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

1.3 Further documents

- Data sheet
- For documents in other languages, see r-stahl.com.

1.4 Conformity with standards and regulations

For certificates and declaration of conformity, see r-stahl.com.

2 Explanation of symbols

2.1 Symbols used in these operating instructions

Symbol	Bedeutung
	Tips and recommendations on the use of the device
	Danger due to explosive atmosphere
	Danger due to live components

2.2 Warning notes

Warning notes must be observed under all circumstances, in order to minimise the risk resulting from design engineering 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 or 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 these instructions can result in material damage to the device and/or its surroundings.	

2.3 Symbols on the device

Symbol	Meaning
	CE marking according to the current applicable directive.
	UKCA marking according to the currently applicable directive.
	Device certified for hazardous areas according to the marking.

3 Safety notes

3.1 Operating instructions storage

- Carefully read the operating instructions.
- Store the operating instructions at the mounting location of the device.
- Observe applicable documents and operating instructions of the devices to be connected.

3.2 Safe use

Before mounting

- Read and observe the safety notes in these operating instructions!
- Ensure that the contents of these operating instructions are fully understood by the personnel in charge.
- Use the device in accordance with its intended and approved purpose only.
- Always consult R. STAHL Schaltgeräte GmbH if using the device under operating conditions which are not covered by the technical data.
- We cannot be held liable for damage to the device caused by incorrect or unauthorised use or non-compliance with these operating instructions.

For mounting and installation

- Observe national mounting and installation regulations (e.g. IEC/EN 60079-14).
- Observe national safety and accident prevention regulations.
- During installation and operation, observe the information (characteristic values and rated operating conditions) on the rating, data and information plates located on the device.
- Before installation, make sure that the device is not damaged.

Maintenance, repair, commissioning

- Before commissioning, make sure that the device is not damaged.
- Work on the device, such as installation, maintenance, overhaul, repair, may only be carried out by appropriately authorised and trained personnel.
- Only perform the maintenance work and repairs described in these operating instructions.

3.3 Intended use

The luminaire is equipment

- for lighting areas, work spaces and objects
- that can be used indoors and outdoors
- for stationary mounting
- for use in Zones 1, 21, 2, 22 and in the safe area

3.4 Modifications

	DANGER Explosion hazard due to modifications and alterations to the device! Non-compliance results in severe or fatal injuries. • Do not modify or change the device.
	No liability or warranty for damage resulting from modifications and alterations.

4 Function and device design

	DANGER Explosion hazard due to improper use! Non-compliance results in severe or fatal injuries. • Use the device only according to the operating conditions described in these operating instructions. • Use the device only for the intended purpose specified in these operating instructions.
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4.1 Function

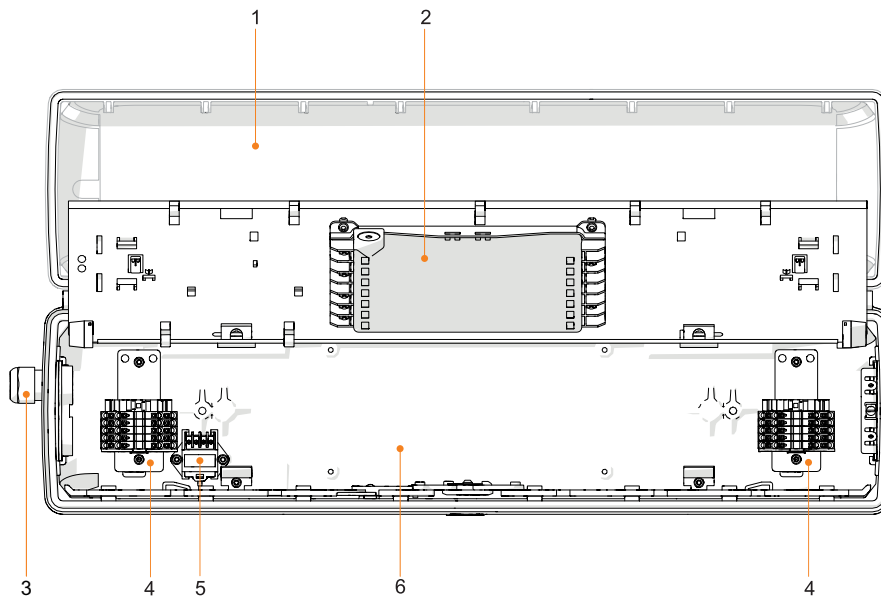
Application range

- The luminaire 6002/4 is equipment used for lighting areas, work equipment and objects. It can be used indoors and outdoors.

Mode of operation

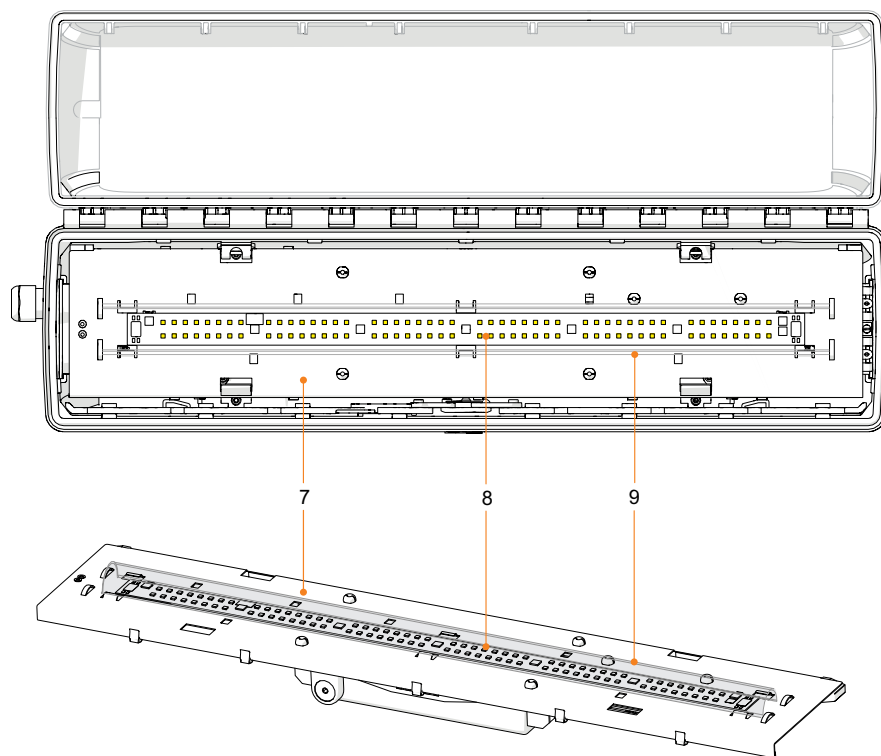
- When opened using a central lock, the luminaire switches off automatically (optional). The operating hours can be determined and the luminaire can be dimmed and switched (optional) via a DALI interface.

4.2 Device design



20298E00

- | | | | |
|---|-------------------|---|---------------------|
| 1 | Translucent cover | 4 | Connection terminal |
| 2 | Control gear | 5 | Switch (optional) |
| 3 | Cable entry | 6 | Luminaire enclosure |



20299E00

- | | | | |
|---|----------------|---|----------|
| 7 | Mounting plate | 9 | Diffuser |
| 8 | LED PCB | | |

5 Technical data

Explosion protection

Global (IECEX)

Gas and dust	IECEX IBE 14.0035 Ex db eb ib op is IIC T4 Gb Ex tb op is IIIC T100 °C Db
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Europe (ATEX, UKEX)

Gas and dust	IBExU 14 ATEX 1088, CML 21UKEX1553 Ex II 2 G Ex db eb ib op is IIC T4 Gb Ex II 2 D Ex tb op is IIIC T100 °C Db
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Certifications and certificates

Certifications	IECEX, ATEX, UKEX
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Technical data

Electrical data

Rated operational voltage	Standard + DALI Size 2, Size 4		Standard + DALI Size 6	with address module Size 2, Size 4, Size 6
	100 ... 240 V AC ±10 %, 50 ... 60 Hz		110 ... 240 V AC ±10 %, 50 ... 60 Hz	220 ... 240 V AC ±10 %, 50 Hz
	110 ... 250 V DC ±10 %		110 ... 250 V DC ±10 %	194 ... 250 V DC ±10 %
Rated operational current		Size 2	Size 4	Size 6
	230 V; 50 Hz	100 mA	160 mA	230 mA
	110 V; 60 Hz	170 mA	320 mA	470 mA
Start-up current	I _{peak} = 51 A; Δt = 127 μs Maximum number of luminaires per miniature circuit breaker ¹⁾			
	Type	10 A	16 A	20 A
	B	12	19	24
	C	20	33	41
	K	41	66	82
	¹⁾ Typical values for 1-pole miniature circuit breaker at +25 °C and nominal voltage 230 V AC; the exact number depends on the miniature circuit breaker used			
Power factor		Size 2	Size 4	Size 6
	230 V; 50 Hz	≥ 0.85	≥ 0.93	≥ 0.96
	110 V; 60 Hz	≥ 0.97	≥ 0.99	≥ 0.99
Class	I (with internal PE connection)			
Protective conductor current	≤ 0.5 mA			
THD		Size 2	Size 4	Size 6
	230 V; 50 Hz	< 19%	< 11%	< 7 %
	110 V; 50 Hz	< 15 %	< 8 %	< 6 %

Technical data

Typical power consumption at 230 V, 50 Hz		Size 2	Size 4	Size 6
	White CCT (4000 K, 5000 K, 2700 K, 4000 K)	18 W	35 W	49 W
	PC Yellow	16 W	30 W	30 W
	Green	15 W	29 W	29 W
	Red	–	22 W	22 W
	Blue	16 W	29 W	29 W

Luminous characteristics

Colour rendering

2700 K, 4000 K, 5000 K: $R_a \geq 80$
6500 K: $R_a \geq 90$

Colour temperature

Depending on the variant: 2700 K (IDA compatible),
4000 K (warm white),
5.000 K (standard light colour, neutral white),
6500 K (daylight white)Colour temperature / CRI
4000 K / CRI80

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	2800	152
		without	3120	170
	opaque	with	2310	126
		without	2580	140
4	clear	with	5600	161
		without	6240	180
	opaque	with	4630	133
		without	5160	149
6	clear	with	7690	159
		without	8560	176
	opaque	with	6350	131
		without	7070	146

Colour temperature / CRI
5000 K / CRI80

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	2890	157
		without	3220	175
	opaque	with	2380	129
		without	2660	145
4	clear	with	5770	168
		without	6430	186
	opaque	with	4760	138
		without	5310	154
6	clear	with	7920	163
		without	8820	182
	opaque	with	6540	135
		without	7280	150

Colour temperature / CRI
2700 K / CRI80

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	2620	142
		without	2920	159
	opaque	with	2160	117
		without	2410	131
4	clear	with	5240	152
		without	5840	169
	opaque	with	4330	126
		without	4820	140
6	clear	with	7190	148
		without	8010	165
	opaque	with	5940	122
		without	6620	136

Colour temperature / CRI
6500 K / CRI90

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	2700	147
		without	3010	164
	opaque	with	2230	121
		without	2480	135
4	clear	with	5400	156
		without	6020	173
	opaque	with	4460	129
		without	4970	143
6	clear	with	7410	153
		without	8250	170
	opaque	with	6120	126
		without	5820	141

PC Yellow -
phosphorconverted yellow

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	1820	114
		without	2020	126
	opaque	with	1500	94
		without	1670	104
4	clear	with	3630	121
		without	4050	135
	opaque	with	3000	100
		without	3340	112
6	clear	with	3630	121
		without	4050	135
	opaque	with	3000	100
		without	3340	112

Green - 530 nm

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	1770	114
		without	1970	127
	opaque	with	1460	94
		without	1630	105
4	clear	with	3530	122
		without	3940	136
	opaque	with	2920	101
		without	3250	112
6	clear	with	3530	122
		without	3940	136
	opaque	with	2920	101
		without	3250	112

Red - 625 nm

Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	–	–
		without	–	–
	opaque	with	–	–
		without	–	–
4	clear	with	1280	59
		without	1430	66
	opaque	with	1060	49
		without	1180	55
6	clear	with	1280	59
		without	1430	66
	opaque	with	1060	49
		without	1180	55

Blue - 475 nm

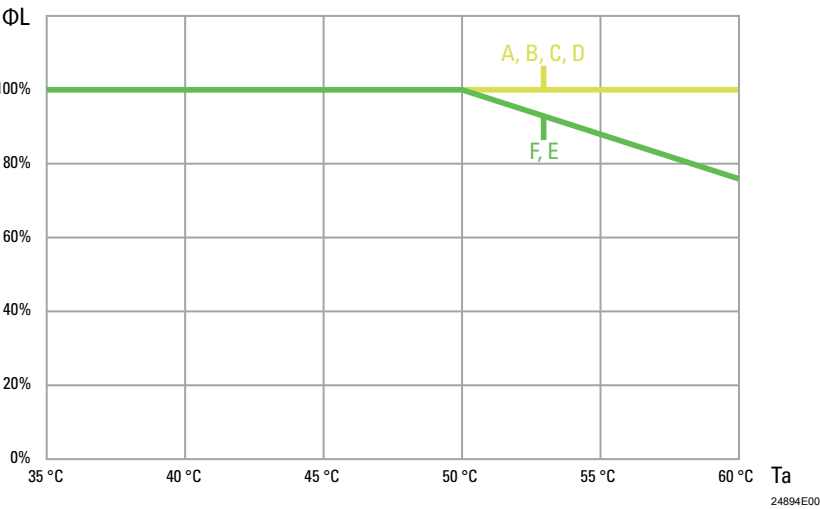
Size	Cover	Internal diffuser	Luminaire luminous flux [lm]	Luminaire efficiency [lm/W]
2	clear	with	780	50
		without	860	55
	opaque	with	640	41
		without	710	46
4	clear	with	1550	53
		without	1730	59
	opaque	with	1280	44
		without	1430	49
6	clear	with	1550	53
		without	1730	59
	opaque	with	1280	44
		without	1430	49

Energy efficiency class of the light source

Luminous flux decline

The device contains a light source in energy efficiency class B (4000 K, 5000 K) or Class C (2700 K, 6500 K). (according to the Energy Labelling Regulation for light sources)

- during DC operation to 50% (standard)
- during DC operation without luminous flux decline (optional)
- at ambient temperature



- A: Size 2; 230 V
- B: Size 2; 110V
- C: Size 4; 230 V
- D: Size 4; 110 V
- E: Size 6; 230 V
- F: Size 6; 110 V

Ambient conditions

Functional ambient
temperature range

Size 2, 4:

Variant: with or without DALI

Light colour: White tones, red, yellow phosphorus converted
and blue

without through wiring: -40 ... +60 °C

I_N Through wiring ≤ 10 A: -40 ... +60 °C

I_N Through wiring ≤ 16 A: -40 ... +50 °C

Light colour: Green

without through wiring: -40 ... +50 °C

I_N Through wiring ≤ 10 A: -40 ... +50 °C

I_N Through wiring ≤ 16 A: -40 ... +50 °C

Variant: with address module

Light colour: White tones, red, yellow phosphorus converted
and blue

without through wiring: -30 ... +60 °C

I_N Through wiring ≤ 10 A: -30 ... +60 °C

I_N Through wiring ≤ 16 A: -30 ... +50 °C

Size 6:

Variant: with or without DALI

Light colour: White tones, red, yellow phosphorus converted
and blue

without through wiring: -20 ... +60 °C

I_N Through wiring ≤ 10 A: -20 ... +60 °C

I_N Through wiring ≤ 16 A: -20 ... +50 °C

Light colour: Green

without through wiring: -20 ... +50 °C

I_N Through wiring ≤ 10 A: -20 ... +50 °C

I_N Through wiring ≤ 16 A: -20 ... +50 °C

Variant: with address module

Light colour: White tones, red, yellow phosphorus converted
and blue

without through wiring: -20 ... +60 °C

I_N Through wiring ≤ 10 A: -20 ... +60 °C

I_N Through wiring ≤ 16 A: -20 ... +50 °C

Storage

-40 to +75 °C

Service life

LED

	White CCT, red	PC yellow	Green	Blue
$L_{90}B_{50}$	>100,000 h	>33,000 h	>30,000 h	>86,000 h

L_xB_y

At the end of the service life:

- Luminous flux declines to "x" percent
- up to "y" percent of all luminaires do not reach "x"

LED control gear

	Standard + DALI	with address module
C10 at 50 °C	$\geq 100,000$ h	$\geq 50,000$ h
C10 at 60 °C	$\geq 50,000$ h	$\geq 50,000$ h

Mechanical data

Degree of protection according to IEC 60598	Size 2	Size 4	Size 6
R. STAHL cable entries	IP66 / IP67	IP66 / IP67	IP66
PMF 200400 breather	IP66	IP66	IP66
8162/1 breather	IP64	IP64	IP64
Impact strength (IK Code)	IK10 (IEC 62262)		
Material			
Enclosure	Polyester resin, glass fibre reinforced		
Enclosure colours	Grey colour, similar to RAL 7035		
Translucent cover	Polycarbonate		
Seal	Silicone seal, foamed into the translucent cover		
Luminaire lock	Central lock for M8 / A/F 13 box spanner; the translucent cover can be swivelled on its hinge		
Luminaire weight	Standard configuration, with through wiring, with standard 5 pole terminal, without safety switch, without address module Size 2: 4.5 kg Size 4: 6.9 kg Size 6: 8.0 kg		

Mounting/installation

Cable entries		
Openings	Standard	Connection side, 2 drilled holes for M25 (for loop in/loop out wiring) Output side, 1 drilled hole for M25 (for through wiring of the connection line)
	optional	max. 4 drilled holes for M20, M25, NPSM 1/2" or max. 2 drilled holes for NPT 3/4"
Threaded plate	Standard	2 x plastic M25 x 1.5
	optional	2 x metal M25 x 1.5 or M20 x 1.5 connected by means of PE for metal cable entries Seawater-resistant version on request Attention: cable entries must be ordered separately
Accessories	Standard	Plastic, 2 x M25 x 1.5 cable entries 8161 and 2 x M25 x 1.5 stopping plugs 8290 (included)
	optional	Metal cable glands: M20 x 1.5, M25 x 1.5; earthing of metal cable entries via metal plates (further cable entries possible on request)
Connection	Spring clamp terminals for max. 16 A Standard: 5-pole: L1, L2, L3, N, PE with address module: 5-pole: L+, N-, PE, L', N' with DALI: 7-pole: L1, L2, L3, N, PE, DA, DA Clamping range: 1 x 1,5 ... 4 mm ² (finely stranded) 1 x 1,5 ... 6 mm ² (solid and finely stranded with core end sleeve) (2 free clamping units per pole available)	

Through wiring	Standard	with Luminaires are equipped with internal through wiring. Connection of ingoing and outgoing leads on opposite sides is possible. Terminals: See technical data Wiring cross section of the supply line connection: 2.5 mm ² for max. 16 A (Observe operating temperature)
	optional	without On the connection side, there are 2 M25 x 1.5 bores for cable entries for loop in/loop out wiring of the connection line (ingoing and outgoing lead on one side).
Mounting	Standard	2 x M8 insert nuts in the enclosure
	optional	Mounting grooves in the enclosure for use of mounting and top rails for variable luminaire mounting (variable mounting distances for luminaires Size 2: 320 to 480 mm; Size 4, size 6: 670 to 930 mm)
Optional		
Interface	DALI-2 (according to IEC 62386): • Device type 6 (LED driver) • Device type 51 (energy report) • Device type 52 (diagnostics & maintenance)	
Address module	Control input: Rated voltage: 220 ... 230 V 50 Hz AC / DC Function: Address and switching module for R. STAHL emergency lighting systems according to VDE 0108: The module is used for monitoring individual luminaires and for the control of mains and emergency luminaires. The module offers the following functions: • Control of the luminaire (ON/OFF) and calling up the function • Up to 20 addresses can be configured for each electrical circuit by means of software • The type of connection (continuous light, stand-by light or switched light) of the luminaire is freely programmable • Mixed operation within a circuit is possible	
Breather	• Breather 8162/1 from R. STAHL Schaltgeräte GmbH • Gore PMF200400 breather, only in combination with reducer from R. STAHL Schaltgeräte GmbH (enclosed) Note: No breather may be used in atmospheres with corrosive gases. Gore PMF200400 breather only in combination with threaded plates made of metal.	

For further technical data, see r-stahl.com.

6 Transport and storage

- Transport and store the device only in the original packaging.
- Store the device in a dry place (no condensation) free of vibrations.
- Do not drop the device.
- Devices which have been installed and commissioned but are not operated during a period exceeding the maximum storage period (see table below) must be continuously operated for minimum 6 hours every month.

Average storage temperature	Average air humidity	Maximum storage period
≤ 25 °C	≤ 65 % r.h.	9 months
≤ 25 °C	> 65 % r.h.	6 months *
> 25 °C	> 65 % r.h.	4 months *
> 25 °C	≤ 65 % r.h.	6 months

* Storage at air humidity > 90 % r.h. is not permitted

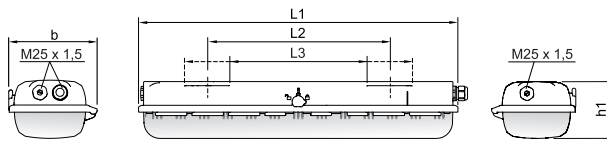
7 Mounting and installation

DANGER	
	Explosion hazard due to incorrect installation of the device! Non-compliance results in severe or fatal injuries. • Carry out installation strictly according to the instructions and national safety and accident prevention regulations to maintain explosion protection. • Select and install the electrical device so that explosion protection is not affected due to external influences (see IEC/EN 60079-14). • The device must only be installed by trained qualified personnel who are familiar with the relevant standards.

7.1 Dimensions / fastening dimensions

Dimensional drawings (all dimensions in mm [inch]) – Subject to change

EN



15440E00

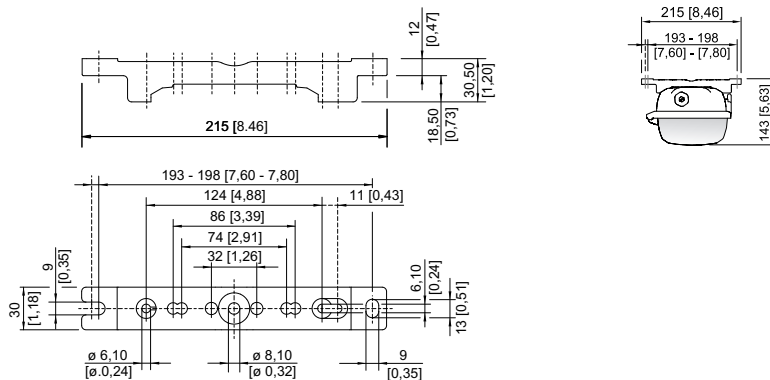
Dimensions	Luminaire Size 2	Size 4	Size 6
L1	700 [27.56]	1310 [51.57]	1610 [63.39]
L2 ¹⁾	400 [15.75]	800 [31.50]	800 [31.50]
L3 ²⁾	320 ... 480 [12.60 ... 18.90]	670 ... 930 [26.38 ... 36.61]	670 ... 930 [26.38 ... 36.61]
b	184 [7.24]	184 [7.24]	184 [7.24]
h1	125 [4.92]	125 [4.92]	125 [4.92]

¹⁾ fixed mounting distance

²⁾ variable mounting distance

EXLUX 6002/4 standard luminaire

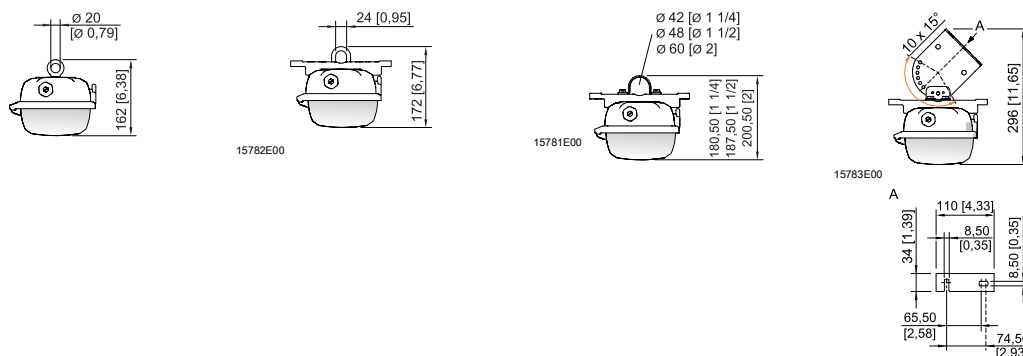
Dimensional drawings for assembly parts and accessories (all dimensions in mm [inch]) – Subject to change



15779E00

15778E00

Mounting rail



15783E00

15780E00

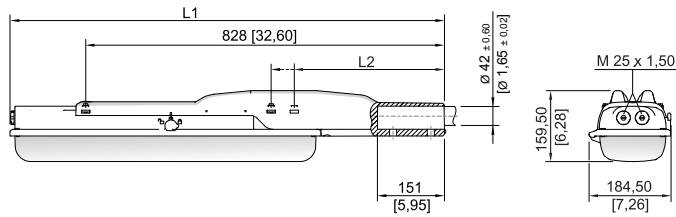
Ring bolt
installed in insert
nut of the luminaire

Mounting bracket
fitted in
luminaire mounting rail

Pipe clamp
installed in
mounting rail

Wall mounting bracket
installed in mounting rail

Dimensional drawings for assembly parts and accessories (all dimensions in mm [inch]) –
Subject to change



17755E00

Dimensions	Luminaire	
	Size 2	Size 4
L1	978 [38.50]	1587 [62.48]
L2	390 [15.35]	338 [13.31]

Linear luminaire EXLUX with pole mounting sleeve

7.2 Removing protective foil

As standard, the luminaire is generally delivered with protective foil on the translucent cover. However, in some cases, it can be delivered without protective foil.

	DANGER
	Explosion hazard due to electrostatic discharge! Non-compliance results in severe or fatal injuries. Only remove protective foil in safe areas.

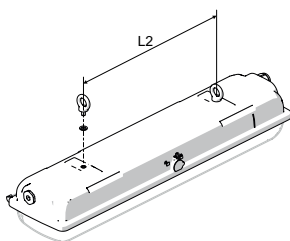
If protective foil is present:

- Remove the protective foil before commissioning.

7.3 Mounting/dismounting, operating position

	DANGER Explosion hazard due to electrostatic discharge! Non-compliance results in severe or fatal injuries. Do not use the device in strong charge-generating environments! The following processes/activities should be avoided: • Accidental friction • Particle flows
	DANGER Explosion hazard due to impermissible heating! Non-compliance results in severe or fatal injuries. • Avoid external heat sources – comply with the ambient temperature range (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).
	The luminaire is suitable for wall and ceiling mounting. In event of wall mounting in outdoor areas, avoid installation with central lock at top. The mounting position with light emission upwards is prohibited in outdoor areas.

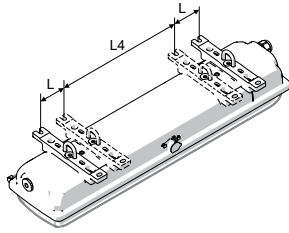
Suspension at fixed mounting points



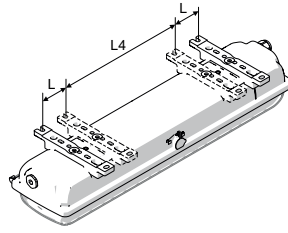
Size	L2 mm [inch]
2	400 [15.75]
4	800 [31.50]
6	800 [31.50]

max. screw-in depth 10 mm [0.39]

Suspension on movable assembly parts



15442E00



15447E00

Mounting bracket

Top rail

Size	L4 mm [inch]	L mm [inch]
2	320 [12.60]	80 [3.15]
4	670 [26.38]	130 [5.12]
6	670 [26.38]	130 [5.12]

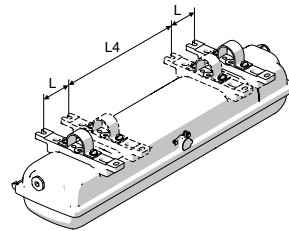
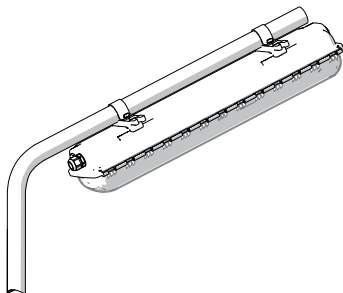
Lateral mounting pockets for variable points of suspension.



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 suspension

Pole mounting using pipe clamps



15443E00

15445E00

Size	L4 mm [inch]	L mm [inch]
2	320 [12.60]	80 [3.15]
4	670 [26.38]	130 [5.12]
6	670 [26.38]	130 [5.12]

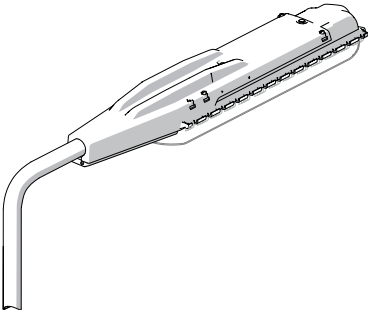


For pipe clamp mounting, use the solution from R. STAHL Schaltgeräte GmbH with integrated mounting rail providing reliable and stable four-point fixing!
In case of point suspension using pipe clamps, R. STAHL Schaltgeräte GmbH does not guarantee the strength and tightness of the luminaire!

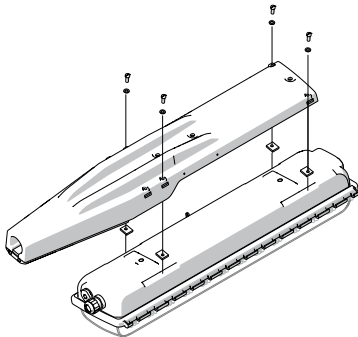
Pole mounting using pole mounting sleeve



Only for size 2 and size 4

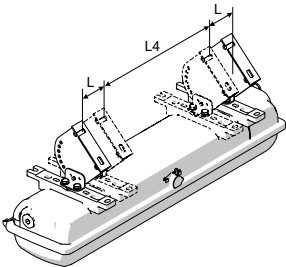


17761E00

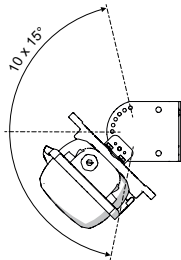


17762E00

Wall bracket mounting



15515E00

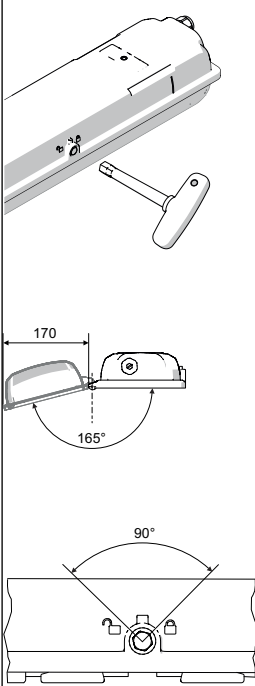


15517E00

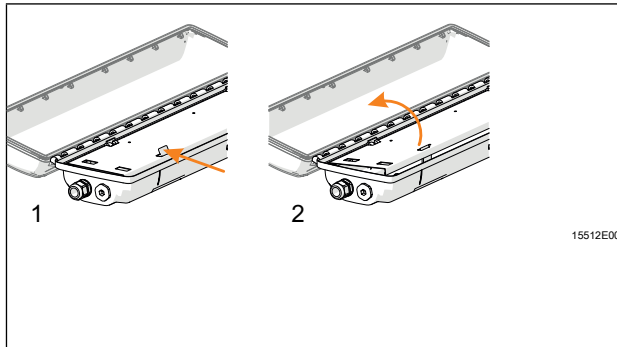
Size	L4 mm [inch]	L mm [inch]
2	320 [12.60]	80 [3.15]
4	670 [26.38]	130 [5.12]
6	670 [26.38]	130 [5.12]

7.4 Installation

7.4.1 Opening and closing the enclosure

	DANGER Risk of electric shock due to improper opening! Non-compliance results in severe or fatal injuries. Open luminaires without switches only in de-energised state (see information plate on the lock)!
NOTICE Danger due to electrostatic discharge. Electronic components can be destroyed if touched. Do not touch the LED PCBs!	
i	Recommendation Open and close the luminaire using the box spanner from R. STAHL Schaltgeräte GmbH.
 15448E00 15451E00 15436E00	- Remove the closing cap of the central lock. - Turn the central lock using a box spanner M8, spanner 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 (protection against dirt).
i	Observe the following during mounting and dismantling: - Version without switch: Disconnect the luminaire from the power supply and secure it against being switched on again. - Do not use force when opening or closing the enclosure! Central lock - Version with switches: The luminaire is positively disconnected from the power supply by actuating the central lock. - In the open end position and with the translucent cover swivelled down, the anti-pumping device prevents the central lock from being actuated.

Opening and closing the reflector plate

	Opening: • Open the reflector plate by pressing down on the safety latch (1). • Swivel down the reflector plate (2). Closing: • Flip up the reflector plate and snap it into place.
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7.4.2 Electrical connections

Mains connection

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

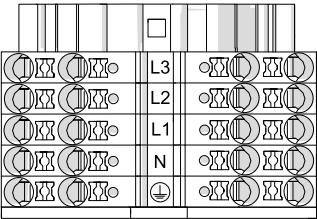
Observe the following when connecting to the mains connection:

- Clamping must be carried out precisely!
- Do not clamp any part of the conductor insulation!
- Do not mix up the conductors.
- Observe the technical regulations when connecting the conductor.
- Clamp the conductor firmly.

Connection terminals

Clamping range:
1 x 1.5 to 4 mm² (finely stranded)
1 x 1.5 to 6 mm² (solid and finely stranded with core end sleeve)
(2 free clamping units per pole available)
Stripping length:
10 to 12 mm

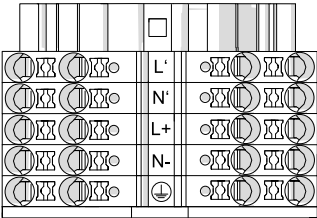
Standard



L1, L2, L3 = phase
N = neutral conductor
 = protective conductor

20219E00

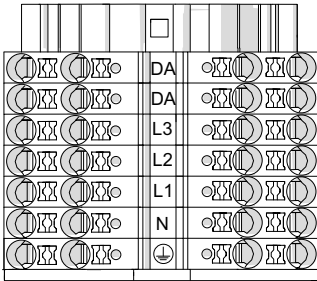
With address module



L', N' = control input
L+, N- = final electrical circuit
 = protective conductor

20220E00

With DALI connection



DA, DA = DALI connection
L1, L2, L3 = phase
N = neutral conductor
 = protective conductor

20221E00

Through wiring of the mains supply connection

	Through wiring with 2.5 mm ² cross-section for max. 16 A.
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7.4.3 Luminaires with address module

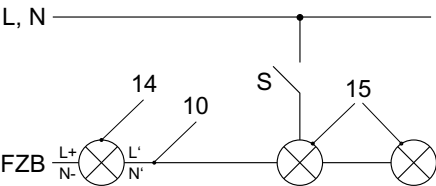
The address module is integrated into the control gear. Each control gear with an integrated address module has a unique serial number. This serial number is on the control gear and can also be recorded with a QR code scanner. The luminaire address is assigned using the configuration software for the central battery unit or with a programming device available as an accessory.



There are four removable labels with the serial number on the control gear (1x label for the control gear, 1x label for the exterior luminaire, 2x for customer documents).
During installation, write down the location and position of the luminaire and the serial number. This simplifies configuration of the central battery unit. Further information on configuration can be found in the software description and the central battery unit manual.

Control input (L', N')

The address module provides the opportunity to connect a control line for switching the luminaire together with the general lighting.



L, N	Power supply network	10	Control line
FZB	Battery system	14	Emergency lighting
S	General lighting switch	15	General lighting

19025E00

7.4.4 Cable entries, stopping plugs and breathers

The standard luminaire is delivered with 3 entries, 2 cable entries and 2 stopping plugs.

Tightening torques for components from R. STAHL Schaltgeräte GmbH

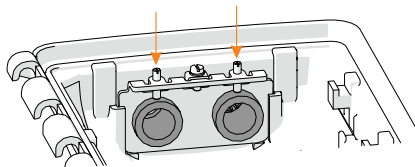
Luminaires with installed cable entries and stopping plugs from

R. STAHL Schaltgeräte GmbH must be tightened using the following values:

		Tightening torque	
		Connection thread	Pressure screw
Cable entry 8161	M20 x 1.5	2.3 Nm	1.5 Nm
	M25 x 1.5	3.0 Nm	2.0 Nm
Stopping plug 8290	M20 x 1.5	1.0 Nm	–
	M25 x 1.5	1.5 Nm	–
Breather 8162/1	M25	3.0 Nm	–
Breather PMF200400	–	0.9 Nm	–
Reducer for PMF200400 breather	M25	3.0 Nm	–
	M20	3.0 Nm	–

Cable entry or breather made of metal

	DANGER
	Explosion hazard due to unearthed external metal parts! Non-compliance results in severe or fatal injuries. Contact threaded pins for a combination of a metal insertion plate with metal cable entries or breather (see figure).



23080E00

Luminaires with cable entries and stopping plugs which are not supplied by R. STAHL Schaltgeräte GmbH

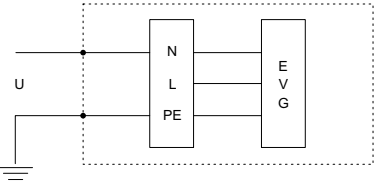
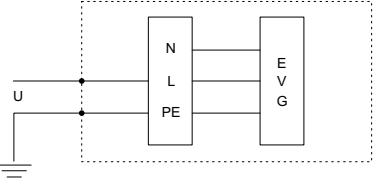
	DANGER
	Explosion hazard due to impermissible cable entries and stopping plugs! Non-compliance results in severe or fatal injuries. Use cable entries and stopping plugs which have been separately tested according to Directive 2014/34/EU (ATEX) or IECEx (CoC), which comply with the standard version stated in the certificate of the luminaire and which have been certified.

Please observe the following:

- the required dust resistance!
- the required type of protection!
- the required temperature resistance!
- the IP degree of protection according to the label on the device!
- the operating instructions of the cable entries and stopping plugs!
- the required tightening torques!
- the area for the permissible conductor diameter!
- insert the metal cable entries and/or stopping plugs into the PE!

7.4.5 Lighting system insulation test

A DC voltage insulation test in electrical circuits is permissible up to 500 V DC under the following conditions:

Test location/condition	Circuit diagram
1. Between neutral conductor and protective conductor	 22952E00
2. Between phase and protective conductor	 22953E00

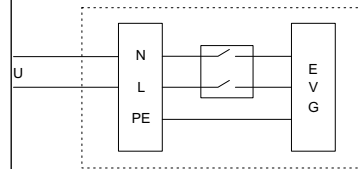
3. Between phase and neutral conductor

For a measurement between phase and the neutral conductor, the control gear must be disconnected from the mains power!

NOTICE!

Destruction of the device and/or electrical components if the disconnecter is missing!
Non-compliance may lead to material damage!

- ▶ Only disconnect the device from the mains power using an internal switch before the insulation test.



22954E00

8 Commissioning

	DANGER
	Explosion hazard due to incorrect installation! Non-compliance results in severe or fatal injuries. • Check the device for proper installation before commissioning. • Comply with national regulations.
NOTICE	
Malfunction or device damage caused by condensation. Non-compliance may lead to material damage! • Operate the luminaire continuously or periodically over extended periods of time. • Avoid thermal bridges, use suitable installation accessories.	

Before commissioning, ensure the following:

- Check the mounting and installation.
- Check the device for damage.
- Remove any foreign objects.
- If necessary, clean the connection chamber.
- Monitor whether the electrical lines have been inserted correctly.
- Monitor whether all screws and nuts have been tightened securely.
- Monitor whether all drilled holes are closed.
- Monitor whether all cable entries and stopping plugs have been tightened securely.
- Monitor whether all conductors have been clamped firmly.
- Monitor whether the line voltage and the rated operational voltage are consistent.
- Monitor whether the permissible conductor diameters for the corresponding cable entries have been used.
- Monitor whether the device is closed according to regulations.
- If necessary, remove transport protection (foam cushion).
- Monitor whether the LED assembly and the diffuser are clean.
- Check that there is no protective foil on the translucent cover.

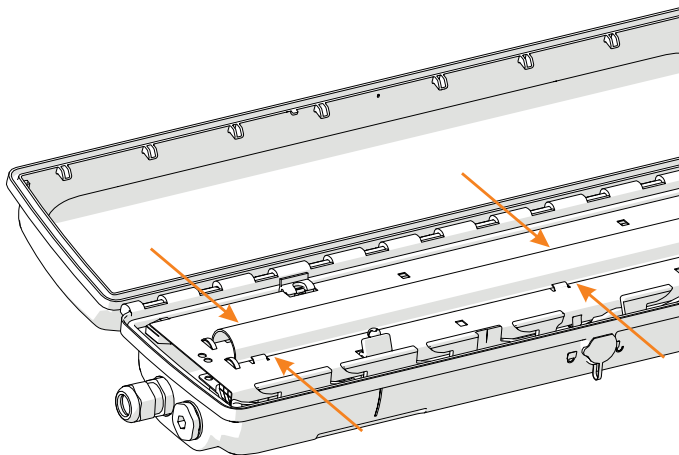
After commissioning

- Once commissioned, the device must be continuously operated for minimum 6 hours every month.

Dismounting the diffuser (optional)

The diffuser can be removed if necessary.

	DANGER
	Explosion hazard due to LED damage! Non-compliance may result in serious or even fatal injuries. • Only dismount the diffuser directly before commissioning. • Perform dismount without tool.



20531E00

- Press together the diffuser at the points of the retaining tabs and remove.

9 Maintenance, overhaul, repair

	CAUTION
	Risk of electric shock or malfunction of the device due to unauthorised work! Non-compliance can result in minor injuries! • Switch off the voltage supply before working on the device. • Work performed on the device must only be carried out by authorised and appropriately trained qualified electricians.

9.1 Maintenance and overhaul

- Consult the relevant national regulations to determine the type and extent of inspections.
- Tailor inspection intervals to the operating conditions.
- Perform maintenance and repair work in accordance with IEC 60079-17 and IEC 60079-19.

	Observe the relevant national regulations in the country of use.
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During maintenance/overhaul of the device, the following points must be checked:

- Whether the clamping screws holding the electrical lines fit securely
- Whether the device has cracks or other visible signs of damage
- Whether the seal shows signs of ageing or damage (completely replace enclosure components with damaged foamed seal)
- Whether the device is clean inside and out
- Whether the permissible temperatures are complied with (according to EN60079)
- Whether the cable entry is intact and securely tightened
- Whether the cables and electrical lines show signs of ageing and damage
- Whether the device is used as intended and functions properly

9.2 Repair

	DANGER
	Explosion hazard due to improper repair! Non-compliance results in severe or fatal injuries. • Only perform repairs on the device using original spare parts from R. STAHL Schaltgeräte GmbH, taking the associated installation instructions into account.

Repairs carried out on the mounting plate are not permitted. Replace the mounting plate completely in case of error.

9.3 Returning the device

- Only return or package the devices after consulting R. STAHL!
Contact the responsible representative from R. STAHL.

R. STAHL's customer service is available to handle returns if repair or service is required.

- Contact customer service personally.

or

- Go to the r-stahl.com website.
- Under "Support" > "RMA" > select "RMA-REQUEST".
- Fill out the form and send it.
You will automatically receive an RMA form via email. Please print this file off.
- Send the device along with the RMA form in the packaging to
R. STAHL Schaltgeräte GmbH (refer to chapter 1.1 for the address).

10 Cleaning

- Devices located in hazardous areas may only be cleaned with a damp cloth to avoid electrostatic charge.
- When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents.
- Do not use abrasive cleaning agents or solvents.
- Never clean the device with a strong water jet, e.g. a pressure washer.

11 Disposal

- Observe national, local and statutory regulations regarding disposal.
- Separate materials for recycling.
- Ensure environmentally friendly disposal of all components according to statutory regulations.

Removal of components at the end of their service life:

- Remove and open luminaires according to the operating instructions.
- Disconnect cables from the LED PCB and control gear.
- Control gear: Loosen the mounting screws and remove the device.
- LED PCB: Push the barbs on the underside together using suitable pliers and remove the PCB upwards.

12 Accessories and spare parts

NOTICE

Malfunction or damage to the device due to the use of non-original components.
Non-compliance may lead to material damage!

- Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH.



For accessories and spare parts, see the data sheet on our homepage r-stahl.com.

EU-Konformitätserklärung

EU Declaration of Conformity

Déclaration de Conformité UE



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)	6002/4.

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)
2014/34/EU ATEX-Richtlinie 2014/34/EU ATEX Directive 2014/34/UE Directive ATEX (OJ L 96, 29/03/2014, p. 309–356)	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 + A1:2018 EN 60079-11:2012 EN 60079-18:2015 + A1:2017 EN 60079-28:2015 EN 60079-31:2014
Kennzeichnung, marking, marquage	II 2G Ex db eb ib mb op is IIC T4 Gb II 2G Ex db eb ib op is IIC T4 Gb II 2D Ex tb op is IIC T 100°C Db CE₀₁₅₈
EU-Baumusterprüfbescheinigung EU Type Examination Certificate Attestation d'examen UE de type	IBExU 14 ATEX 1088 IBExU Institut für Sicherheitstechnik GmbH Fuchsmühlenweg 7, 09599 Freiberg, Germany, NB0637
Gesundheits- und Sicherheitsanforderungen nach Anhang II ATEX (Produktnormen aus Niederspannungsrichtlinie) Health and safety requirements according to Annex II ATEX (product standards from Low Voltage Directive) Exigences de santé et de sécurité selon Annexe II ATEX (normes de produit de la Directive Basse Tension)	EN IEC 60598-1:2021 + A11:2022 EN IEC 60598-2-22:2022 EN 62471:2008
2014/30/EU EMV-Richtlinie 2014/30/EU EMC Directive 2014/30/UE Directive CEM (OJ L 96, 29/03/2014, p. 79–106)	EN 61547:2009 EN IEC 55015:2019 + A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013 + A1:2019
2011/65/EU & (EU) 2015/863 RoHS-Richtlinien 2011/65/EU & (EU) 2015/863 RoHS Directives 2011/65/UE & (UE) 2015/863 Directives RoHS (OJ L 174, 1/07/2011, p. 88–110 & OJ L 137, 04/06/2015, p. 10–12)	EN IEC 63000:2018

Unterzeichnet für und im Namen von: / signed for and on behalf of: / signé pour et au nom de:

R. STAHL Schaltgeräte GmbH

Waldenburg, 2026-03-31

Ort und Datum
Place and date
Lieu et date

Signed by:

D9C934BBE47F4A6...

Steffen Holtz
Leiter Entwicklung Leuchten und Signalgeräte
Director R&D Lighting and Signalling
Directeur R&D Eclairage & Appareils de signalisation

Signiert von:

E499DCEFA96534BB...

Daniel Groth
Leiter Qualitätsmanagement Systeme
Director Quality Management Systems
Directeur Systèmes de Management de la Qualité