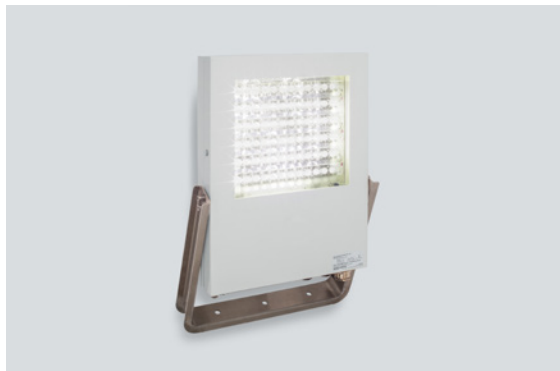


6125/2122-3501-6015-331 Art. No. 284564



- LED high-power floodlight with power consumption of up to 225 W
- Wide-range voltage input between 110 V and 277 V (50 Hz and 60 Hz)
- Suitable for operation in central battery systems and DC mains (176 V to 264 V DC)
- Three wattage classes are available: 100 W, 160 W and 225 W
- An enclosure made from stainless steel 316L is also available for marine and offshore applications.
- Optionally available with DALI interface

MY R. STAHL 6125B



The new generation of LED floodlights for Zone 1 also relies on the tried-and-tested, robust stainless steel enclosure (optionally seawater-resistant stainless steel 316L). However, thanks to their smaller design and a new generation of drivers, they weigh significantly less, thereby improving ergonomics during installation and operation. Now with three power classes and the three tried-and-tested light distribution curves, the LED floodlight generates three colours of LED light – warm white, neutral white and cold white.

Technical Data

Explosion Protection

Application range (zones)	1, 2, 21, 22
IECEEx gas certificate	IECEEx EPS 15.0087
IECEEx gas explosion protection	Ex db eb op is IIC T4 Gb
IECEEx dust certificate	IECEEx EPS 15.0087
IECEEx dust explosion protection	Ex tb op is IIIC T100 °C Db
ATEX gas certificate	EPS 15 ATEX 1 114
ATEX gas explosion protection	Ex II 2 G Ex db eb op is IIC T4 Gb
ATEX dust certificate	EPS 15 ATEX 1 114
ATEX dust explosion protection	Ex II 2 D Ex tb op is IIIC T100 °C Db
Certificates	ATEX (BVIS), Brazil (ULB), IECEEx (BVIS), India (PESO)
Declaration of Conformity	ATEX (EUK)

Electrical Data

Rated operational voltage AC	110 ... 277 V
Frequency range	50 – 60 Hz

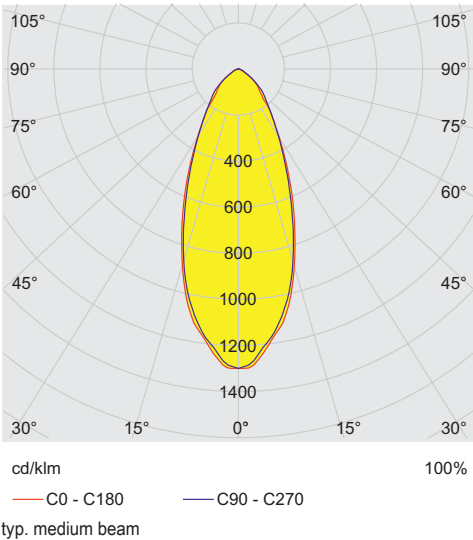
Lighting Data

Lamp wattage	160 W
Lamp type	LED
Lamp	LED
Light colour	Neutral white
Light distribution	Medium-beam
Luminaire efficacy	99 lm/W
Luminous flux	15413 lm
Colour rendering	≥ 80
Colour temperature	5000 K

6125/2122-3501-6015-331 Art. No. 284564

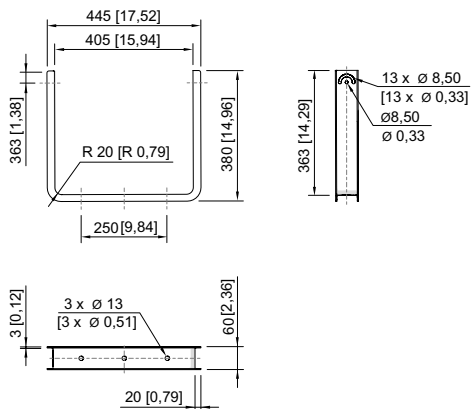
Ambient Conditions	
Ambient temperature	-60 °C ... +60 °C
Storage temperature	-40 °C ... +75 °C
Mechanical Data	
Degree of protection (IP)	IP66
Class	I
Enclosure material	Stainless steel 1.4301, Powder-coated Single-layer powder-coated
Enclosure colour	Similar to RAL 9010
Sealing material	Silicone
Pane material	Reinforced glass
Max. solid connection terminals	6 mm²
Max. finely stranded connection terminals	4 mm²
Type of connection cable	Finely stranded Solid
Width	400 mm
Height	84 mm
Length	520 mm
Impact strength (IEC 62262)	IK10
Fastening	With bracket, SS304
Weight	18.5 kg
Weight	40.79 lb
Mounting / Installation	
Note about mounting	Provided
Components	
Drilled holes	3 x M25
Cable glands and entries	1 x M25 x 1.5 CMP-25A2F
Material cable gland	Nickel-plated brass
Stopping plugs	2 x M25 x 1.5
Stopping plug material	Polyamide, black

Light Distribution Curves

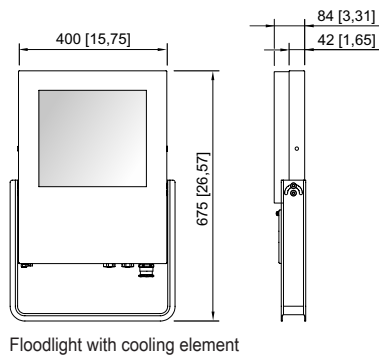


6125/2122-3501-6015-331 Art. No. 284564

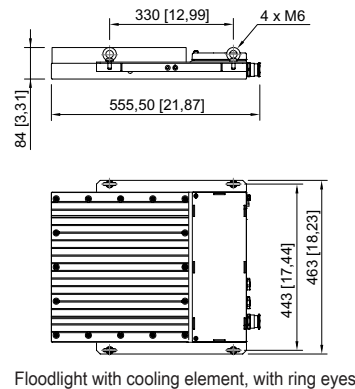
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



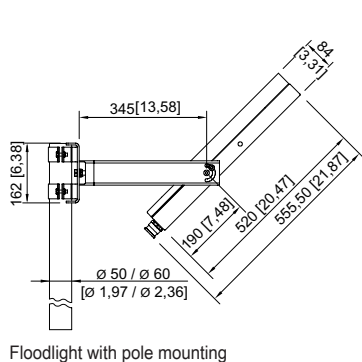
Mounting bracket



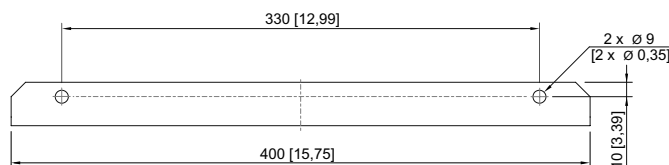
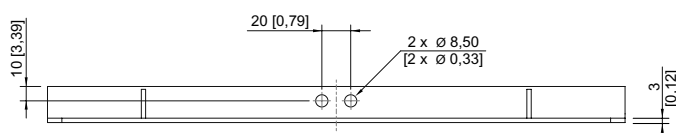
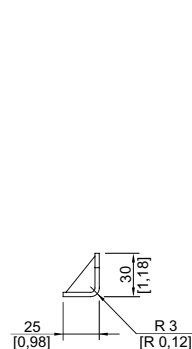
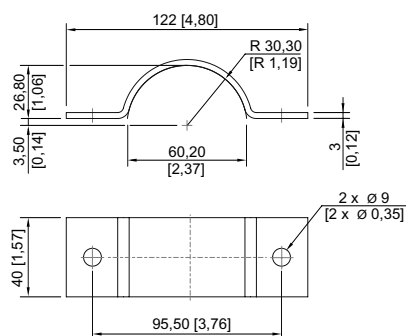
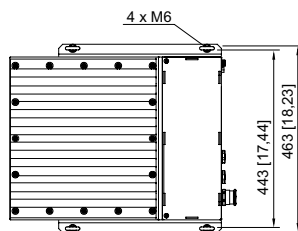
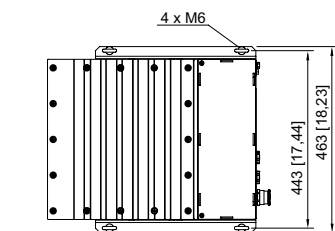
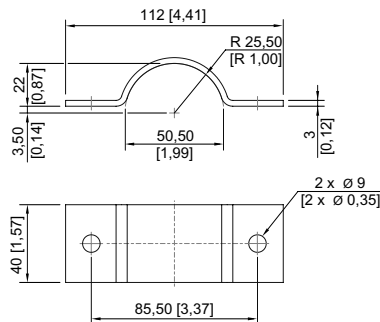
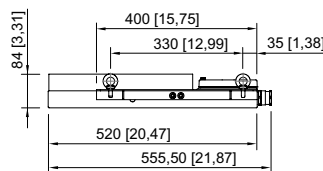
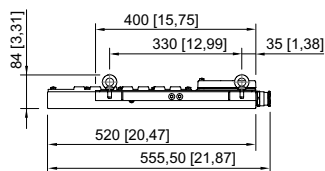
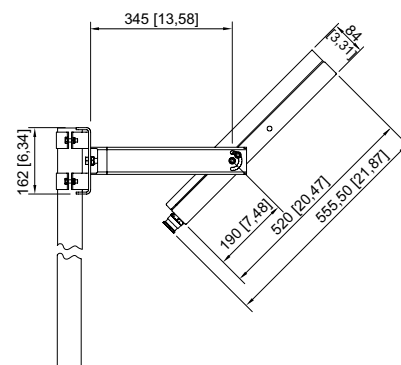
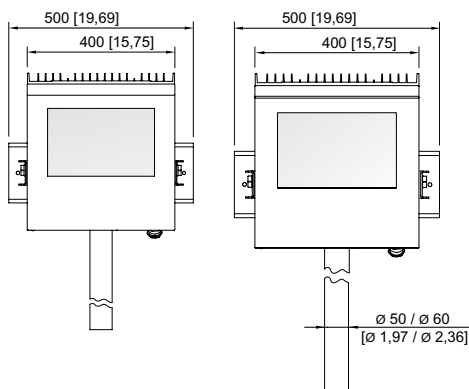
Floodlight with cooling element



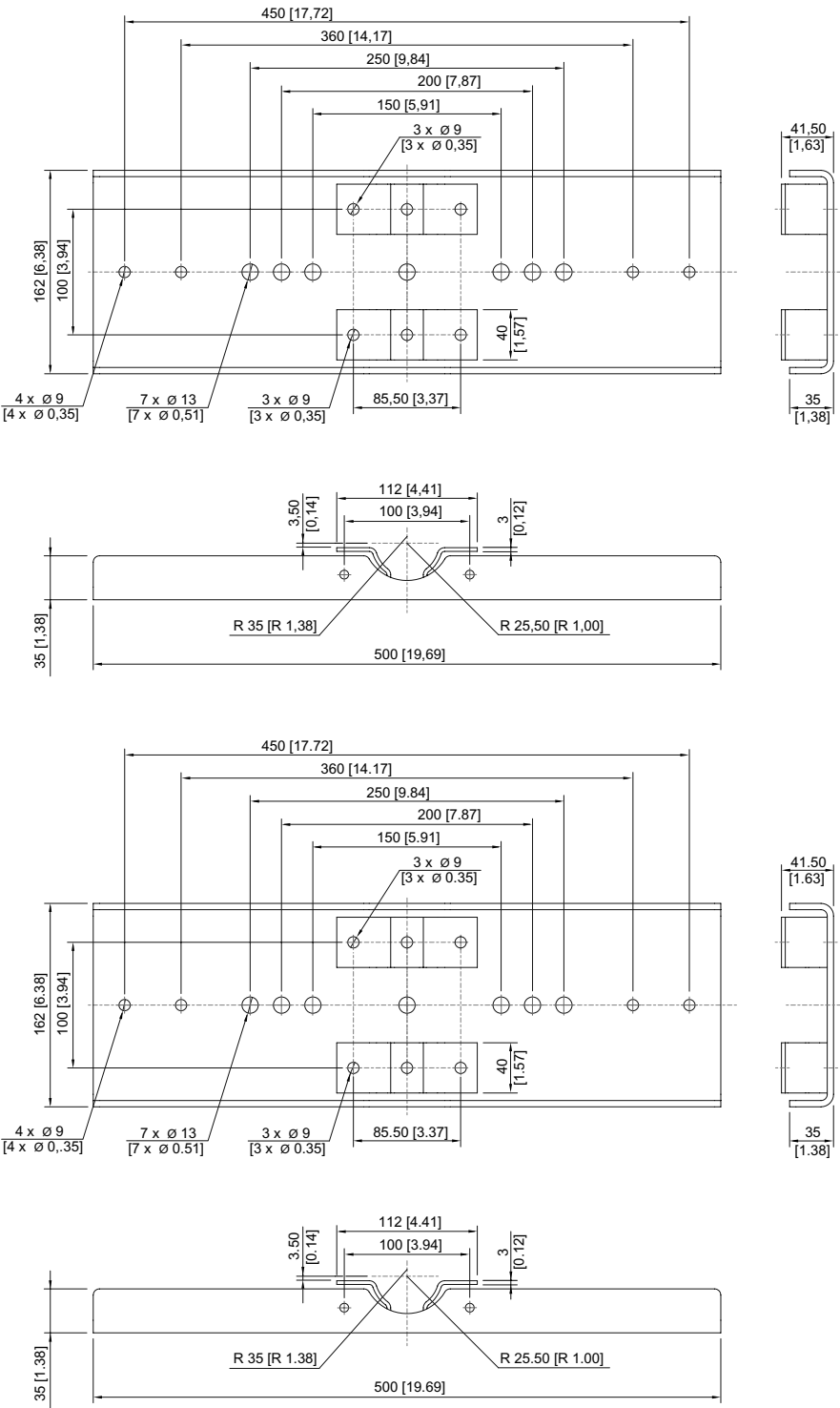
Floodlight with cooling element, with ring eyes



Floodlight with pole mounting



6125/2122-3501-6015-331 Art. No. 284564



Technical drawing of a mechanical part, showing dimensions in mm and inches. The drawing includes a top view and a side view.

Top View Dimensions:

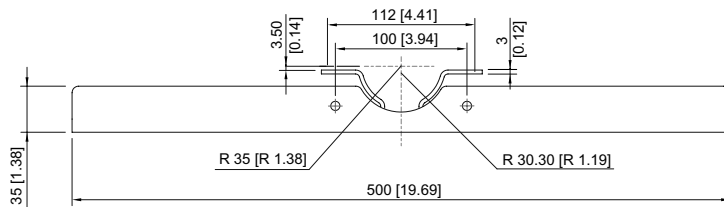
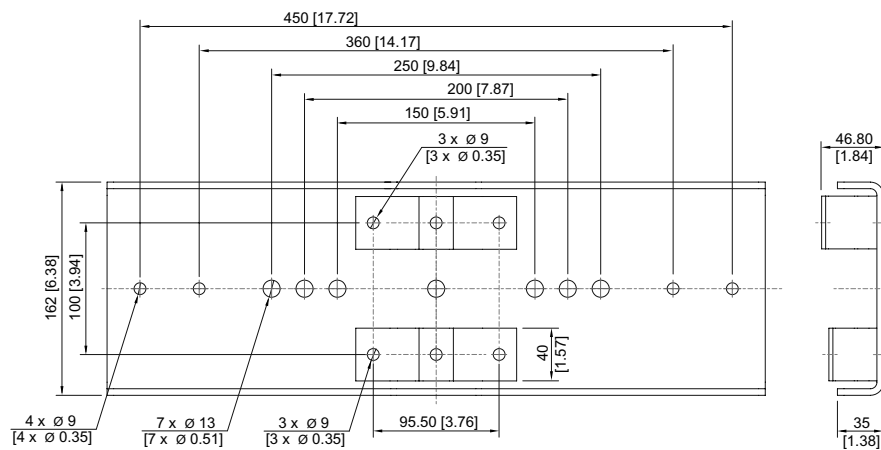
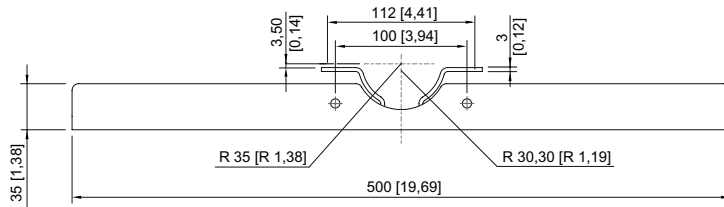
- Overall width: 450 [17,72]
- Overall height: 162 [6,38]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]

Side View Dimensions:

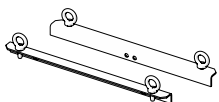
- Overall width: 450 [17,72]
- Overall height: 162 [6,38]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]

Other Dimensions:

- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]
- Distance from left edge to first hole center: 100 [3,94]
- Distance between hole centers: 100 [3,94]
- Distance from right edge to last hole center: 100 [3,94]



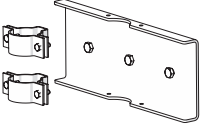


Mounting set



Art. No.

5/6

6125/2122-3501-6015-331 Art. No. 284564

	for pole mounting with pole diameter of 50 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	283361
	for pole mounting with pole diameter of 60 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	263824
Ring bolt		Art. No.
	M6 (4 pieces), direct mounting in insert nuts	254234
Mounting bracket		Art. No.
	Sheet steel, single powder coated	244604
	Stainless steel SS316L (1.4404 or V4A) without powder coating	221589

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.



Floodlight LED





Series 6125/2

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2 Explanation of the symbols




2.1 Symbols in these operating instructions

Symbol	Meaning
	Tips and recommendations on the use of the device
	Danger due to explosive atmosphere
	Danger due to live components
	Risk of damage to the eyes caused by optical radiation

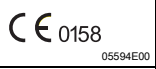


2.2 Warning notes

Warnings 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 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 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.
	UKCA 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.
- 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 assembly and installation

- Observe national assembly 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 type plates and data plates and information signs 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.
- Perform only maintenance work or repair described in these operating instructions.

3.3 Intended Use


The luminaire is equipment

- for lighting areas, work spaces and objects
- 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 and alterations

	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to modifications and alterations to the device! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Do not modify or alter the device.
	<p>No liability or warranty for damage resulting from modifications and alterations.</p>

4 Function and device design

	<p style="text-align: center;">DANGER</p> <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 in accordance with 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

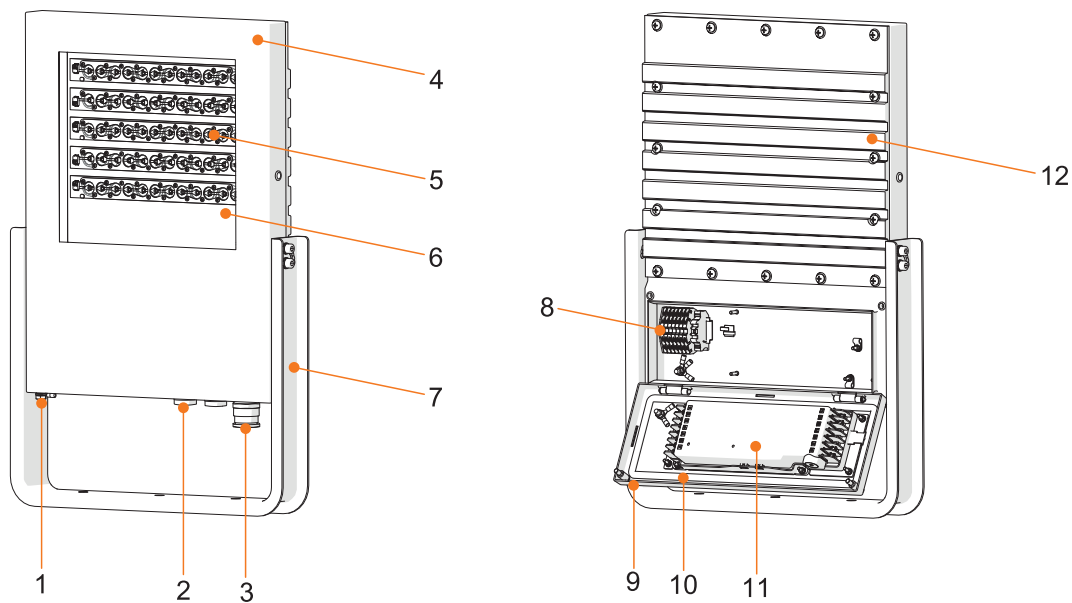
Application range

The LED floodlight 6125/2 is equipment used for lighting areas, work equipment and objects.

It can be used indoors and outdoors.

The floodlight is certified for use in Zones 1, 2, 21 and 22 hazardous areas.

4.2 Device design



22206E00

- | | | | |
|---|------------------------|----|----------------------------|
| 1 | External PE connection | 7 | Mounting bracket |
| 2 | Stopping plug | 8 | Connection terminal |
| 3 | Cable entry | 9 | Cover connection enclosure |
| 4 | Enclosure | 10 | Seal connection enclosure |
| 5 | LED | 11 | Control gear |
| 6 | Luminaire glass cover | 12 | Heat sink |

5 Technical data

Explosion Protection

Global (IECEX)

Gas and dust	IECEX EPS 15.0087
	Ex db eb op is IIC T4 Gb
	Ex tb op is IIIC T100 °C Db

Europe (ATEX, UKEX)

Gas and dust	EPS 15 ATEX 1 114, CML 21UKEX1558
	Ex II 2 G Ex db eb op is IIC T4 Gb
	Ex II 2 D Ex tb op is IIIC T100 °C Db

Certifications and certificates

Certificates	IECEX, ATEX, UKEX
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Technical Data

Electrical data

Control gear

Rated voltage

without DALI:

AC: 110 to 277 V $\pm 10\%$; 50 to 60 Hz
DC: 196 to 250 V $\pm 10\%$

with DALI:

AC: 100 to 277 V $\pm 10\%$; 50 to 60 Hz
DC: 110 to 250 V $\pm 10\%$

Rated current

	Variant 100 W	Variant 160 W	Variant 225 W
110 V AC	≤ 1.05 A	≤ 1.61 A	≤ 2.38 A
230 V AC	≤ 0.50 A	≤ 0.74 A	≤ 1.10 A
277 V AC	≤ 0.42 A	≤ 0.63 A	≤ 0.91 A

Inrush current

Variant	Voltage	Inrush current		light fittings per circuit breaker							
		I _{peak}	Δt	B10	B16	B20	B25	C10	C16	C20	C25
100 W	110 V AC	0 A	> 100 μ s	6	10	13	16	7	11	14	17
	230 V AC	0 A	> 100 μ s	15	24	30	37	16	25	31	38
	277 V AC	0 A	> 100 μ s	19	31	39	49	20	32	40	50
160 W	110 V AC	0 A	> 100 μ s	4	7	8	11	5	8	9	12
	230 V AC	0 A	> 100 μ s	10	16	20	25	11	17	21	26
	277 V AC	0 A	> 100 μ s	13	21	26	32	14	22	27	33
225 W	110 V AC	0 A	> 100 μ s	3	5	6	8	4	6	7	9
	230 V AC	0 A	> 100 μ s	7	11	14	17	8	12	15	18
	277 V AC	0 A	> 100 μ s	9	15	18	23	10	16	19	24

Technical Data

Power factor	> 0.95
THD	≤ 13%
Surge Protection	N - PE: 4 kV L - PE: 4 kV L - N: 2 kV
Protection class	I (with internal PE connection)

Luminous characteristics

Standard	Light colour: Warm white Colour temperature [K]: 2,700 K Colour rendering R_a : ≥80 Application example: lighting of desktops
----------	--

	6125/2...-1...- ...3-...	6125/2...-3...- ...3-...	6125/2...-5...- ...3-...
Variant	100 W	160 W	225 W
Power consumption [W]	100	155	220
Wide-beam			
Luminous flux [lm]	8,816	12,605	17,222
Luminaire efficacy [lm/W]	88	81	78
Medium-beam			
Luminous flux [lm]	9,242	13,311	18,058
Luminaire efficacy [lm/W]	92	86	82
Narrow-beam			
Luminous flux [lm]	9,576	13,665	18,559
Luminaire efficacy [lm/W]	96	88	84

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

Technical Data

Alternative

Light colour: Neutral white Colour temperature [K]: 5,000 K Colour rendering R_a : ≥ 80 Application example: lighting of desktops			
	6125/2...-1...-...5-...	6125/2...-3...-...5-...	6125/2...-5...-...5-...
Variant	100 W	160 W	225 W
Power consumption [W]	100	155	220
Wide-beam			
Luminous flux [lm]	10,208	14,595	19,941
Luminaire efficacy [lm/W]	102	94	91
Medium-beam			
Luminous flux [lm]	10,701	15,413	20,909
Luminaire efficacy [lm/W]	107	99	95
Narrow-beam			
Luminous flux [lm]	11,088	15,822	21,490
Luminaire efficacy [lm/W]	111	102	98
Light colour: Warm neutral white Colour temperature [K]: 4,000 K Colour rendering R_a : ≥ 80 Application example: lighting of desktops			
	6125/2...-1...-...4-...	6125/2...-3...-...4-...	6125/2...-5...-...4-...
Variant	100 W	160 W	225 W
Power consumption [W]	100	155	220
Wide-beam			
Luminous flux [lm]	9,860	14,097	19,261
Luminaire efficacy [lm/W]	99	91	88
Medium-beam			
Luminous flux [lm]	10,336	14,888	20,196
Luminaire efficacy [lm/W]	103	96	92
Narrow-beam			
Luminous flux [lm]	10,710	15,283	20,757
Luminaire efficacy [lm/W]	107	99	94
Values apply to $T_a = +25^\circ\text{C}$.			

Technical Data

EN

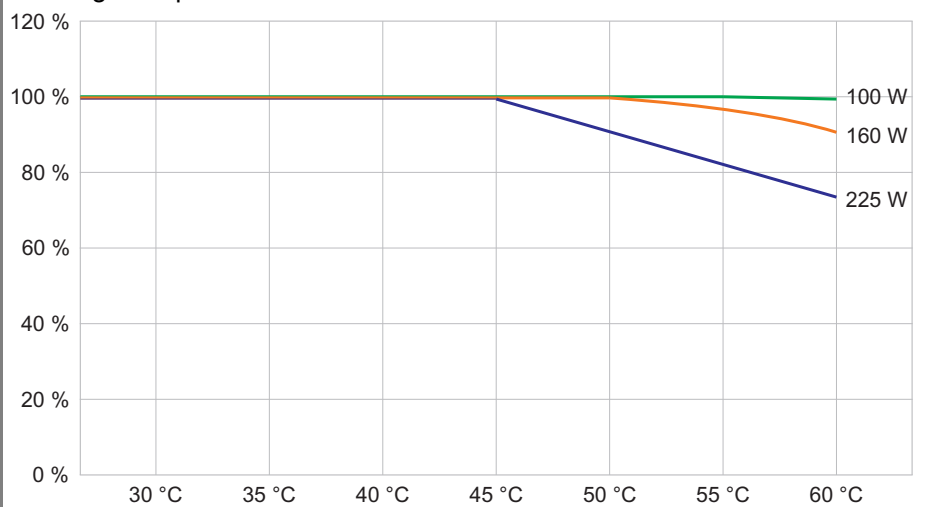
Light colour: Cool white
Colour temperature [K]: 5,700 K
Colour rendering R_a : ≥ 70
Application example: Lighting outside areas

	6125/2...-1...- ...1-...	6125/2...-3...- ...1-...	6125/2...-5...- ...1-...
Variant	100 W	160 W	225 W
Power consumption [W]	100	155	220
Wide-beam			
Luminous flux [lm]	11,574	16,631	22,654
Luminaire efficacy [lm/W]	116	107	103
Medium-beam			
Luminous flux [lm]	12,160	17,444	23,806
Luminaire efficacy [lm/W]	122	113	108
Narrow-beam			
Luminous flux [lm]	12,565	18,022	24,562
Luminaire efficacy [lm/W]	126	116	111

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

- during DC operation to 50%

Luminous flux
decline



22247E00

Technical Data

Ambient conditions

Functional ambient temperature range

4,000 K, 5,000 K, 5,700 K:
Variant 100 W: -50* to +60 °C
Variant 160 W: -60* to +60 °C
Variant 225 W: -60* to +60 °C

2,700 K:
Variant 100 W: -50* to +55 °C
Variant 160 W: -60* to +55 °C
Variant 225 W: -60* to +55 °C

* Note: Possible to operate the luminaire below -40 °C, provided the luminaire is switched on at -40 °C. Delay of 10 seconds below -40 °C.

Storage temperature

-40 to +75 °C

Service life

LED

$L_{90B_{50}}$: 66,000 h at T_a max.

$L_x B_y$

At the end of the service life:

- Luminous flux declines to "x" percent
- Up to "y" percent of all luminaires fall below "x"

LED control gear

	C10
$T_a \leq +25\text{ °C}$	100,000 h
$+25\text{ °C} \leq T_a \leq +40\text{ °C}$	60,000 h
$+40\text{ °C} \leq T_a \leq +60\text{ °C}$	50,000 h

Mechanical data

Degree of protection

IP66
IP67 (optionally according to IEC 60598-1) ¹⁾
¹⁾ Do not loosen any of the screws on the heat sink.

Impact strength (IK code)

IK10 (IEC 62262)

Material

Enclosure, cover and bracket

6125/2...-....-331

Stainless steel SS304 (1.4301 or V2A),
Enclosure, cover with single powder coating,
bracket without powder coating

6125/2...-....-242

Stainless steel SS316L (1.4404 or V4A),
Enclosure, cover with double powder coating
(offshore coating), bracket without powder
coating

Enclosure colours

Colour white, similar to RAL 9010

Seal (cover)

Foamed silicone in luminaire cover

Luminaire glass cover

Toughened glass

Luminaire locking

Cheese-head screws TORX M6

Technical Data**Mounting / Installation**

Cable entry	1 x cable gland Series CMP A2F 2 x stopping plugs Series 8290
Connection	Spring clamp terminals Standard: 5-pole: L1, L2, L3, N, PE with DALI: 7-pole: L1, L2, L3, N, PE, D1, D2 Clamping range: 1x 1.5 to 4 mm ² (finely stranded) 1x 1.5 to 6 mm ² (solid and finely stranded with core end sleeve) (2 free clamping units per pole available)
Loop in/loop out wiring	max. 16 A

Optional



DALI-connection	DALI-interface in accordance with IEC 62386-207:2009-08 The maximum permissible voltage drop on the DALI conductor is defined with a maximum of 2 V. This corresponds with a maximum conductor length of 300 m, with a conductor cross-section of 1.5 mm ² .
-----------------	---

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) and vibration-free.
- Do not drop the device.

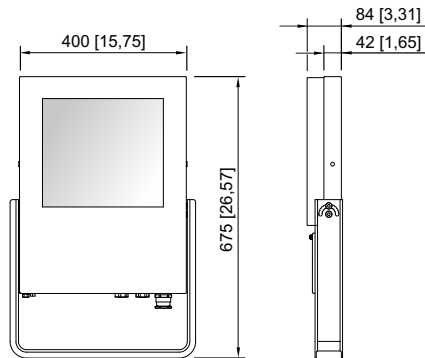
7 Mounting and installation

	<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 device 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 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.
<p style="text-align: center;">NOTICE</p> <p>Malfunction or device damage caused by condensation. Non-compliance can result in material damage!</p> <ul style="list-style-type: none"> • operate the luminaire continuously or periodically over extended periods of time. • avoid thermal bridges, use suitable installation accessories. 	

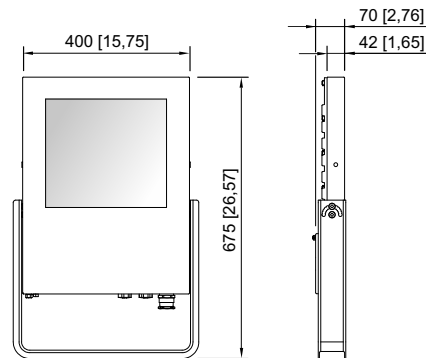
7.1 Dimensions / fastening dimensions

EN

Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



22203E00



22204E00

Floodlights

Heat sink with fins

6125/2...-3...-3.. (Variant 160 W)

6125/2...-3...-2.. (Variant 160 W)

6125/2...-5...-3.. (Variant 225 W)

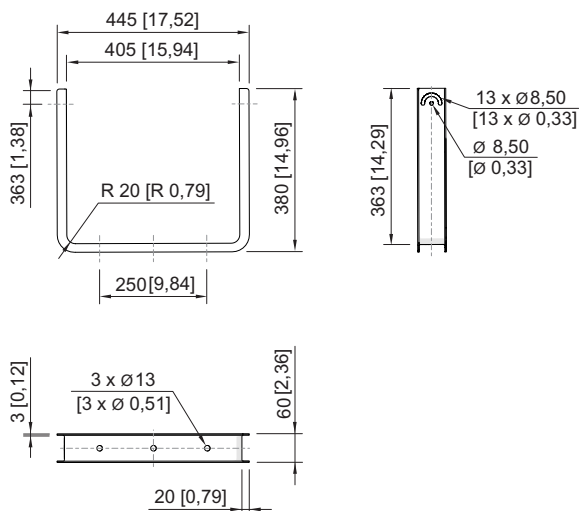
6125/2...-5...-2.. (Variant 225 W)

Floodlights

Heat sink without fins

6125/2...-1...-3.. (Variant 100 W)

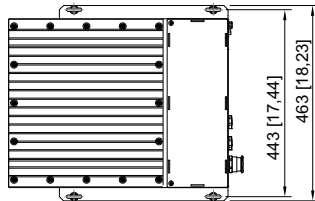
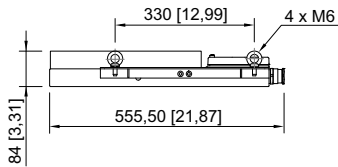
6125/2...-1...-2.. (Variant 100 W)



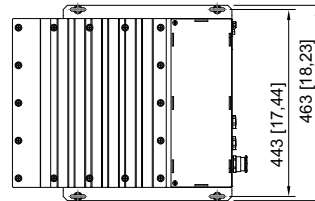
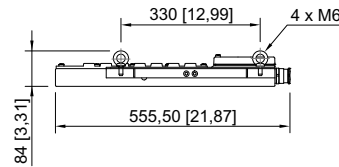
17561E00

Mounting bracket

Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



22209E00



22208E00

Floodlights with ring eyes

Heat sink with fins

6125/2...-3...-0.. (Variant 160 W)

6125/2...-5...-0.. (Variant 225 W)

Floodlights with ring eyes

Heat sink without fins

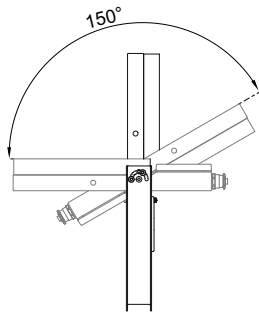
6125/2...-1...-0.. (Variant 100 W)

7.2 Mounting / dismounting, operating position

	<p>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 – 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).
	<p>CAUTION</p> <p>Risk of damage to the eyes caused by optical radiation! Non-compliance can result in light injuries!</p> <ul style="list-style-type: none"> • A minimum distance of 7.751 m between the luminaire and the eye of the viewer must be maintained for the version with narrow-beam light distribution.
	<p>The luminaire is suitable for wall, ceiling mounting and pole mounting with a mounting bracket. Do not install the luminaire so that light is emitted upward and/or so that the cable entry is pointing upward.</p>

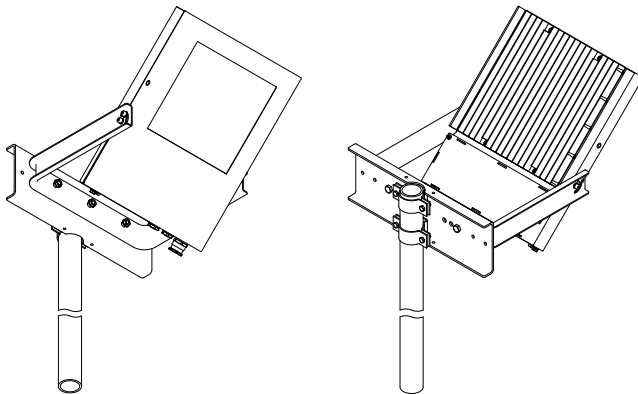
- Maximum tightening torque of 10 Nm for connection screw of the mounting bracket and floodlight.
- Pendant mounting with ring eyes (M6).

Mounting alignment



22244E00

Pole mounting

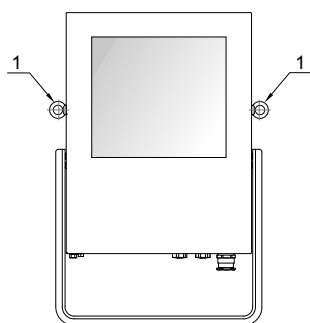


22243E00

Mounting with fall protection




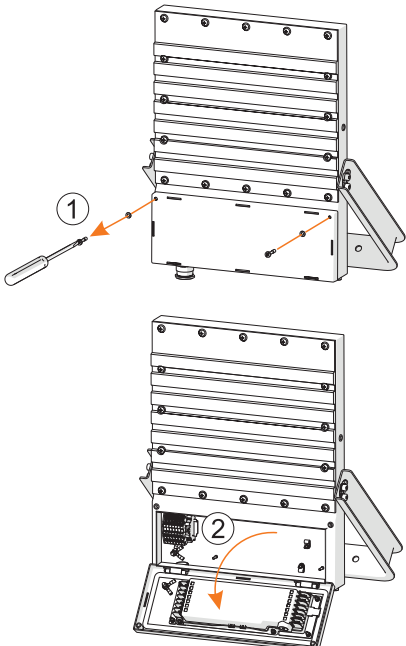
The floodlight can be further protected in unexpected situations by mounting 2 ring eyes (1).



22242E00

7.3 Installation

7.3.1 Opening and Closing of the Enclosure

	<p style="text-align: center;">DANGER</p> <p>Risk of electric shock due to improper opening! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Only open luminaires in a de-energised state.
<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! 	
 <p style="text-align: right; font-size: small;">22210E00 22211E00</p>	<p>Opening:</p> <ul style="list-style-type: none"> • Loosen the two mounting screws (TORX 6) of the enclosure cover (1). • Carefully swivel down the enclosure cover (2). <p>Proceed in reverse order to close:</p> <ul style="list-style-type: none"> • Carefully close the enclosure cover (2). • Tighten the enclosure cover with two mounting screws (TORX 6, tightening torque 5 Nm) (1).

7.3.2 Electrical connections

Electrical connection

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

Observe the following when connecting to the electrical 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)

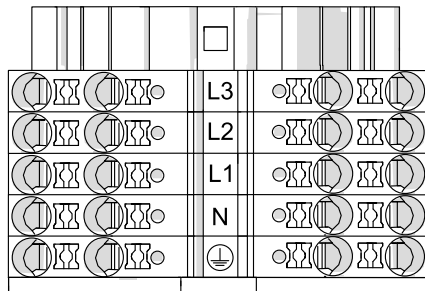
1 x 1.5 to 6 mm² (solid and finely stranded with core end sleeve)

(2 free clamping units per pole available)

Stripping length:

10 to 12 mm

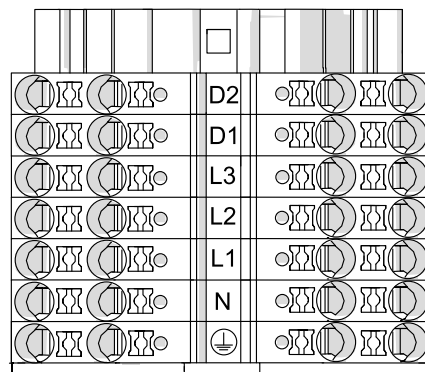
Standard:



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

20219E00


with DALI connection:



D1, D2 = DALI connection
L1, L2, L3 = phase
N = neutral conductor
⊥ = protective conductor

20221E00

Loop in/loop out wiring of the mains connection


	DANGER	
	<p>Explosion hazard due to wrong electrical lines and/or cable entries and cable glands!</p> <p>Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> Only use electrical lines, cable entries and cable glands which meet the special requirements for the service temperature. 	

Special requirements for the service temperature of electrical lines, cable entries and cable glands for loop in/loop out wiring:

Version (4,000 K, 5,000 K, 5,700 K)	Variant	at ambient temperature	$I_N \leq 10 \text{ A}$	$10 \text{ A} \leq I_N \leq 16 \text{ A}$	
			Electrical lines		Cable entry, cable gland
6125/2	100 W	-50* to +60 °C	–	$\geq +95 \text{ °C}$	$\geq +85 \text{ °C}$
		-50* to +50 °C	–	$\geq +85 \text{ °C}$	$\geq +75 \text{ °C}$
	160 W	-60* to +60 °C	$\geq +70 \text{ °C}$	$\geq +100 \text{ °C}$	$\geq +85 \text{ °C}$
		-60* to +50 °C	–	$\geq +90 \text{ °C}$	$\geq +80 \text{ °C}$
	225 W	-60* to +60 °C	$\geq +75 \text{ °C}$	$\geq +95 \text{ °C}$	$\geq +85 \text{ °C}$
		-60* to +50 °C	–	$\geq +85 \text{ °C}$	$\geq +80 \text{ °C}$


Version (2,700 K)	Variant	at ambient temperature	$I_N \leq 10 \text{ A}$	$10 \text{ A} \leq I_N \leq 16 \text{ A}$	
			Electrical lines		Cable entry, cable gland
6125/2	100 W	-50* to +55 °C	–	$\geq +95 \text{ °C}$	$\geq +85 \text{ °C}$
		-50* to +45 °C	–	$\geq +85 \text{ °C}$	$\geq +75 \text{ °C}$
	160 W	-60* to +55 °C	$\geq +70 \text{ °C}$	$\geq +100 \text{ °C}$	$\geq +85 \text{ °C}$
		-60* to +45 °C	–	$\geq +90 \text{ °C}$	$\geq +80 \text{ °C}$
	225 W	-60* to +55 °C	$\geq +75 \text{ °C}$	$\geq +95 \text{ °C}$	$\geq +85 \text{ °C}$
		-60* to +45 °C	–	$\geq +85 \text{ °C}$	$\geq +80 \text{ °C}$

* Note: Possible to operate the luminaire below -40 °C, provided the luminaire is switched on at -40 °C. Delay of 10 seconds below -40 °C.

	<p>Recommendation</p> <p>Use the following cable glands:</p> <ul style="list-style-type: none"> • 243464 – CMP-20A2F NB M20 screw connection • 107642 – CMP-25A2F NB M25 screw connection
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7.3.3 Cable entries

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


	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to impermissible cable entries, cable glands and stopping plugs!</p> <p>Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Only use separately certified cable glands and stopping plugs which have been tested and certified according to Directive 2014/34/EU (ATEX) or IECEx (CoC) and which comply with the standard version stated in the certificate of the luminaire.
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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 rating plate!
- the operating instructions of the cable entries and stopping plugs!
- the required tightening torques!
- the range of the permissible cable diameter!
- Insert the metal cable entries and/or stopping plugs into the PE!

	<p>Cable glands and stopping plugs must be approved for the following types of protection:</p> <ul style="list-style-type: none"> • increased safety (e) and dust (IIIC)
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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 before commissioning. • Comply with national regulations.
<p style="text-align: center;">NOTICE</p> <p>Malfunction or device damage caused by condensation. Non-compliance can result in material damage!</p> <ul style="list-style-type: none"> • 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.
- If necessary, remove foreign bodies.
- If necessary, clean the connection chamber.
- Check if the conductors have been inserted correctly.
- Check if all screws and nuts have been tightened firmly.
- Check if all drilled holes are closed.
- Check whether all the cable entries and stopping plugs have been tightened firmly.
- Check if all conductors have been clamped firmly.
- Check if the line voltage and the rated operational voltage are consistent.
- Check if the permissible conductor diameter for the corresponding cable entries have been used.
- Check if the device is closed according to regulations.
- Check whether the bracket mounting & cover mounting screws are tightened with proper torque.

9 Maintenance, Overhaul, Repair

	<p style="text-align: center;">DANGER</p> <p>Explosion hazard due to hot built-in components! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Only open the enclosure in switched-off state.
	<p style="text-align: center;">CAUTION</p> <p>Risk of electric shock or malfunction of the device due to unauthorized work! Non-compliance can result in light injuries!</p> <ul style="list-style-type: none"> • Before carrying out work on the device, switch off voltage supply. • Work performed on the device must only be carried out by authorized and appropriately trained qualified electricians.
<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! 	

9.1 Maintenance

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

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

- Whether the clamping screws holding the cables are securely seated
- 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 (in accordance with EN 60079) are complied with
- Whether the cable entry is intact and securely tightened
- Whether the cables and lines show signs of ageing and damage
- Intended use and function.

NOTICE

Moisture on the inside of the luminaire can result in damage to electric and electronic components.

- Remove moisture with a cloth!
- Determine the source and eliminate the cause!
- Avoid condensation and thermal bridges!

9.2 Repair**DANGER**

Explosion hazard due to improper repair!
Non-compliance results in severe or fatal injuries.

- Repair work on the devices must be performed only by R. STAHL Schaltgeräte GmbH.

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


	DANGER
	<p>Explosion hazard due to heavy deposits of combustible dusts! Non-compliance results in severe or fatal injuries.</p> <ul style="list-style-type: none"> • Deposits of combustible dusts through regular cleaning according to IEC/EN 60079-14.

- To avoid electrostatic charging, the devices located in potentially explosive areas may only be cleaned using a damp cloth.
- When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents.
- Do not use aggressive detergents or solvents.

11 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.
- 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	
<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 r-stahl.com.</p>

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: LED Scheinwerfer
that the product: LED Floodlight
que le produit: LED Projecteur

Typ(en), type(s), type(s): 6125/2

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)
2014/34/EU 2014/34/EU 2014/34/UE	ATEX-Richtlinie ATEX Directive Directive ATEX	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 + A1:2018 EN 60079-28:2015 EN 60079-31:2014
Kennzeichnung, marking, marquage:		 II 2 G Ex db eb op is IIC T4 Gb II 2 D Ex tb op is IIC T100°C Db  0158
EU-Baumusterprüfbescheinigung: EU-Type Examination Certificate: Attestation d'examen UE de type:		EPS 15 ATEX 1 114 (Bureau Veritas Consumer Products Services Germany GmbH, Businesspark A96, 86842 Tuerkheim, Germany)
Produktnormen nach Niederspannungsrichtlinie: Product standards according to Low Voltage Directive: Normes des produit pour la Directive Basse Tension:		EN 60598-1:2015 + A1:2018 EN 62471:2008
2014/30/EU 2014/30/EU 2014/30/UE	EMV-Richtlinie EMC Directive Directive CEM	EN 55015:2013 + A1:2015 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
2011/65/EU 2011/65/EU 2011/65/UE	RoHS-Richtlinie RoHS Directive Directive RoHS	EN IEC 63000:2018

Waldenburg, 2020-11-04

Ort und Datum
Place and date
Lieu et date

i.V.

Dr. A. Kaufmann
Senior Vice President Marketing & Innovation
Vice-Président directeur Marketing & Innovation

i.V.

J. Freimüller
Vice President global Quality Management
Vice-Président globale Gestion de Qualité

R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany

represented locally by, lokal vertreten durch

R. STAHL LTD. • 2nd Floor, Bromwich Court, Gorsey Lane, Coleshill • Birmingham B46 1JU, UK

declares in its sole responsibility, erklärt in alleiniger Verantwortung,

that the product:

LED Floodlight

dass das Produkt:

LED Scheinwerfer

Type(s), Typ(en):

6125/2.

is in conformity with the requirements of the following regulations and standards.

mit den Anforderungen der folgenden Verordnungen und Normen übereinstimmt.

Regulation(s) / Verordnung(en)	Standard(s) / Norm(en)
S.I. 2016/1107 Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations <i>S.I. 2016/1107 Verordnung für Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen</i>	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 + A1: 2018 EN 60079-28:2015 EN 60079-31:2014

Marking, Kennzeichnung:

II 2G Ex db eb op is IIC T4 Gb
II 2D Ex tb op is IIC T100 °C Db

UK
CA 8505

UK Type Examination Certificate:

UK-Baumusterprüfbescheinigung:

CML 21UKEX1558

(Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, Cheshire, CH65 4LZ, UK, AB2503)

Product standards according to S.I. 2016/1101 Electrical Equipment (Safety) Regulation <i>Produktnormen nach S.I. 2016/1101 (Sicherheits-) Verordnung für elektronische Geräte</i>	EN 60598-1:2015 + A1:2018 EN 62471:2008
S.I. 2016/1091 EMC Regulations <i>S.I. 2016/1091 EMV-Verordnung</i>	EN 61547:2009 EN IEC 55015:2019 + A11:2020 EN 61000-3-2:2014 EN 61000-3-3: 2013
S.I. 2012/3032 RoHS Regulations <i>S.I. 2012/3032 RoHS-Verordnung</i>	EN IEC 63000:2018

Waldenburg, 2023-06-19

Place and date
Ort und Datum

i.V.

S. Holtz
Head of R&D - BU Lighting & Signalling
Leiter Entwicklung Leuchten und Signalgerät

i.V.

D. Groth
Director Quality Management Systems
Leiter Qualitätsmanagementsysteme