

EXLUX Linear luminaire with LED

Series 6602/12 Ex nR

STAHL



- Smart Central Locking System – Allows effortless access for quick maintenance, minimizing downtime and enhancing operational efficiency.
- Advanced Surge Protection up to 2KV – Engineered for resilience, the robust design shields the luminaire from electrical surges, ensuring long-lasting performance.
- Superior Energy Efficiency – Achieves an outstanding 130 lumens per watt, delivering maximum illumination with minimal energy consumption.
- Long-Lasting LED Performance – Designed for durability, the luminaire delivers over 60,000 hours of service life even in +55°C ambient conditions.

MY R. STAHL 6602A

The 6602 linear LED luminaire is built to withstand harsh conditions, making it ideal for industries such as oil & gas, specialty chemicals, and pharmaceuticals and similar hazardous environments. With its high-performance illumination, it is perfect for lighting large surfaces at mounting heights of up to 10 meters, as well as illuminating equipment and objects both indoors and outdoors. For added flexibility, the luminaire can be easily mounted on poles using the pole mounting sleeve accessory, ensuring adaptable installation across various industrial settings.

	IECEX					
Zone	0	1	2	20	21	22
Installation in			•		•	•

Selection Table								
Size		2						
Light distribution		120°x120° with diffusing glass						
Lamp wattage		22 W						
Luminous flux		2837 lm						
Luminaire efficacy		125 lm/W						
Translucent cover	Light colour	Disconnection of the luminaire	Diffuser	Drilled holes	Threaded plate	Product Type	Art. No.	Weight
Clear	5700 K – cool white	No	With diffuser	4 x M25	2x plastic	6602/1221-0100-152-1111-11-857	325351	3.7 kg
Clear	5700 K – cool white	No	With diffuser	4 x M20	2x stainless steel	6602/1221-0100-152-2222-22-857	325355	3.7 kg
Clear	5700 K – cool white	No	With diffuser	4 x M25	2x plastic	6602/1221-0100-332-1111-11-857	325349	3.7 kg
Clear	5700 K – cool white	No	With diffuser	4 x M20	2x stainless steel	6602/1221-0100-332-2222-22-857	325353	3.7 kg
Size		4						
Light distribution		120°x120° with diffusing glass						
Lamp wattage		44 W						
Luminous flux		5594 lm						
Luminaire efficacy		127 lm/W						
Translucent cover	Light colour	Disconnection of the luminaire	Diffuser	Drilled holes	Threaded plate	Product Type	Art. No.	Weight
Clear	5700 K – cool white	No	With diffuser	4 x M25	2x plastic	6602/1241-0100-152-1111-11-857	325352	6.1 kg
Clear	5700 K – cool white	No	With diffuser	4 x M20	2x stainless steel	6602/1241-0100-152-2222-22-857	325356	6.1 kg
Clear	5700 K – cool white	No	With diffuser	4 x M25	2x plastic	6602/1241-0100-332-1111-11-857	325350	6.1 kg

Selection Table

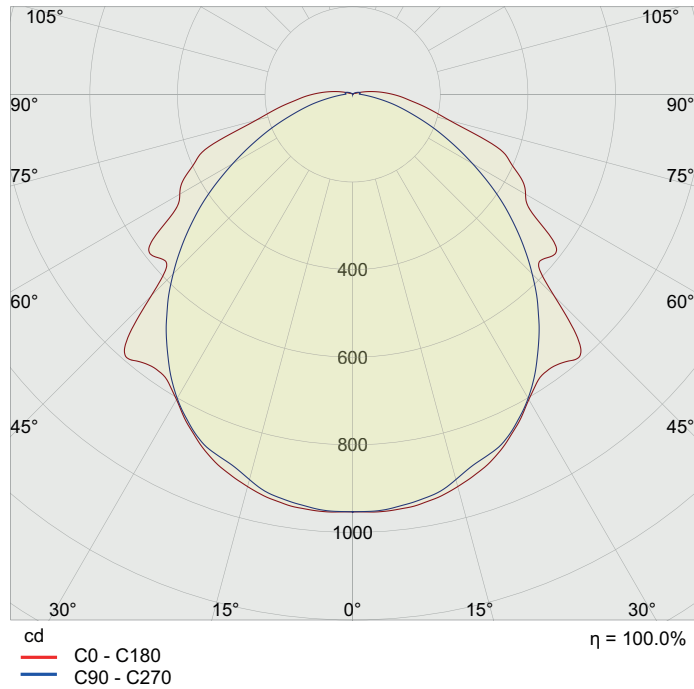
Size	4
Light distribution	120°x120° with diffusing glass
Lamp wattage	44 W
Luminous flux	5594 lm
Luminaire efficacy	127 lm/W

Translucent cover	Light colour	Disconnection of the luminaire	Diffuser	Drilled holes	Threaded plate	Product Type	Art. No.	Weight
Clear	5700 K – cool white	No	With diffuser	4 x M20	2x stainless steel	6602/1241-0100-332-2222-22-857	325354	6.1 kg

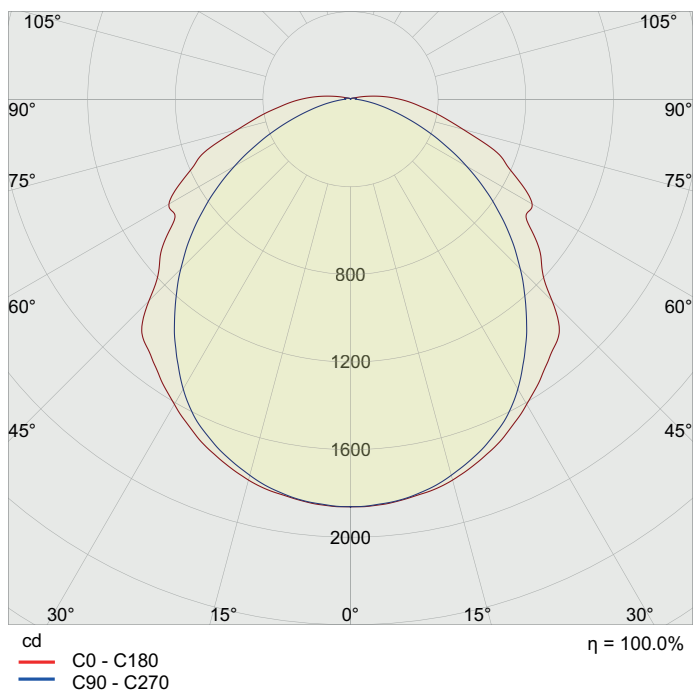
Technical Data

Variant	6602/12**-*-*152-*-*	6602/12**-*-*332-*-*
Explosion Protection		
IECEX gas explosion protection	Ex nR IIC T6 Gc	Ex nR IIC T6 Gc
IECEX dust explosion protection	Ex tb IIIC T85 °C Db	Ex tb IIIC T85 °C Db
Certificates	IECEX (IBE)	IECEX (IBE)
Electrical Data		
Rated operational voltage AC	220 ... 240 V	220 ... 240 V
Frequency range	50 – 60 Hz	50 – 60 Hz
Rated operational voltage DC	220 ... 240 V	220 ... 240 V
Ambient Conditions		
Ambient temperature	-30 °C ... +55 °C Note: Through wiring Max. 3x10 A	-30 °C ... +55 °C Note: Through wiring Max. 3x10 A
Lighting Data		
Number of lamps	1	1
Lamp	LED	LED
Colour rendering	≥ 80	≥ 80
Colour temperature	5700 K	5700 K
Mechanical Data		
IP degree of protection (IEC 60598)	IP66/IP67	IP66/IP67
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Sealing material	Silicone	Silicone
Max. finely stranded connection terminals	4 mm²	4 mm²
Max. solid connection terminals	6 mm²	4 mm²
Type of connection cable	Finely stranded Solid	Finely stranded Solid
Impact strength (IEC 62262)	IK10	IK10
Enclosure colour	Light grey (RAL 7035)	Light grey (RAL 7035)
Components		
Cable entry material	Polyamide, black	Polyamide, black
Stopping plug material	Polyamide, black	Polyamide, black
Ballast	Inventronics -OT FIT	Inventronics -OT FIT
Through wiring	With 5 conductors 2.5 mm²	With 3 conductors 2.5 mm²

Light Distribution Curves – Subject to Alterations

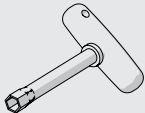
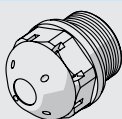
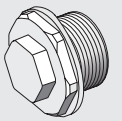
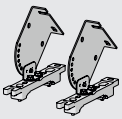
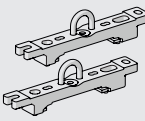
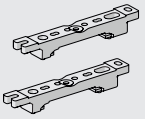
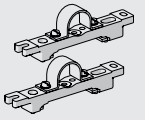
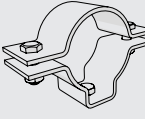


Size 2

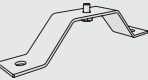


Size 4

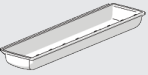
Accessories

Figure	Description	Art. No.	Weight
Box spanner			
	M8 / A/F 13; For actuating the central lock	222430	110 g
Breather			
	Thread: M25 x 1.5 (20 pieces); without jam nut	285780	200 g
	M25 x 1.5 in order to avoid condensate formation	115738	17 g
	Thread: M25 x 1.5 (1 piece); for installation in light fittings; made from stainless steel; without jam nut	296608	76 g
Ceiling and wall mounting bracket			
	mounted on a mounting rail for a variable mounting distance; Material: stainless steel; Lamp can be swiveled in steps of 15°; 1 pair	222827	1.2 kg
Mounting bracket			
	mounting clamp mounted on a mounting rail for a variable mounting distance; 1 pair	222456	400 g
Mounting rail			
	for a variable mounting distance; 1 pair	222826	350 g
Pipe clamp			
	R 1 1/2"; with mounting rail for a variable mounting distance; material: stainless steel; 1 pair	222459	700 g
	R 1 1/4"; with mounting rail for a variable mounting distance; Material: stainless steel; 1 pair	222458	700 g
	R 2"; with mounting rail for a variable mounting distance; Material: stainless steel; 1 pair	222460	750 g
Pole mounting			
	Pole mounting acces. 1.4301 ø38mm-1 pair	324916	700 g
	Pole mounting acces. 1.4301 ø42mm-1 pair	324914	720 g
	Pole mounting acces. 1.4301 ø50mm-1 pair	324915	750 g
	Pole mounting acces. 1.4301 ø60mm-1 pair	324912	800 g
	Pole mounting acces. 1.4404 ø50mm-1 pair	324917	750 g
	Pole mounting acces. 1.4404 ø60mm-1 pair	324913	800 g
Pole mounting sleeve			
	for the subsequent mounting on lights size 2 and size 4, completely with assembly parts (for pipe diameter 42 mm)	227512	3.2 kg

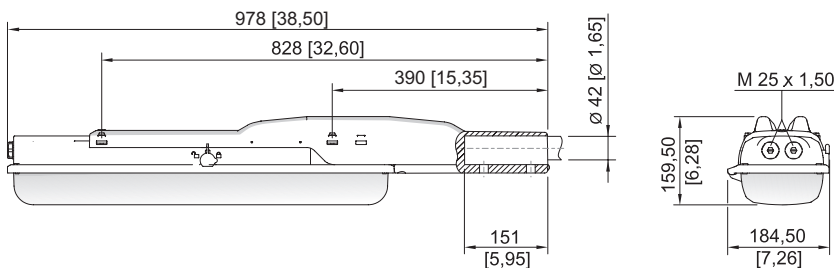
Accessories

Figure	Description	Art. No.	Weight
Ring bolt			
	M8, direct mounting in insert nuts; 1 pair	115736	115 g
Wall mounting			
	Wall/ceiling mtg.bkt. 1.4301w-1pair	324918	600 g

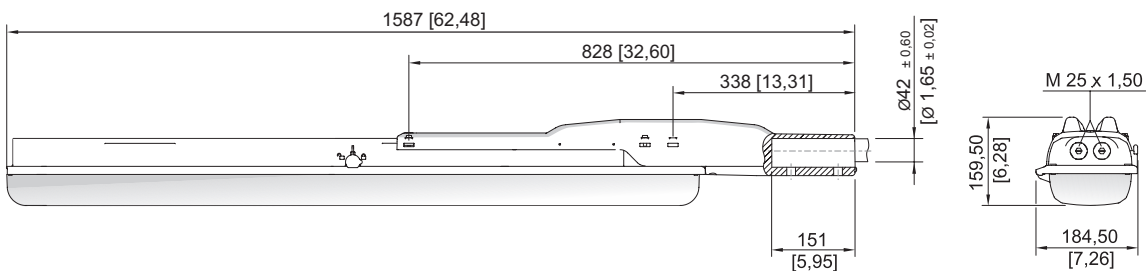
Spare Parts

Figure	Description	Art. No.	Weight
Cover			
	for luminaire size 4	222428	1.15 kg
	for luminaire size 2	222427	639 g

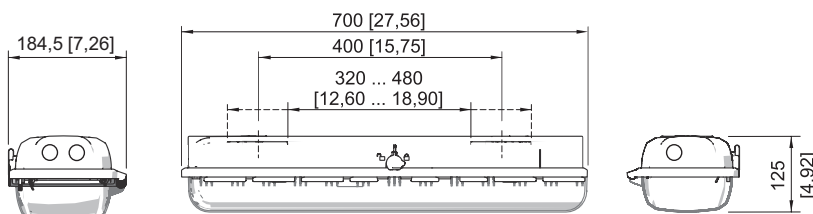
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



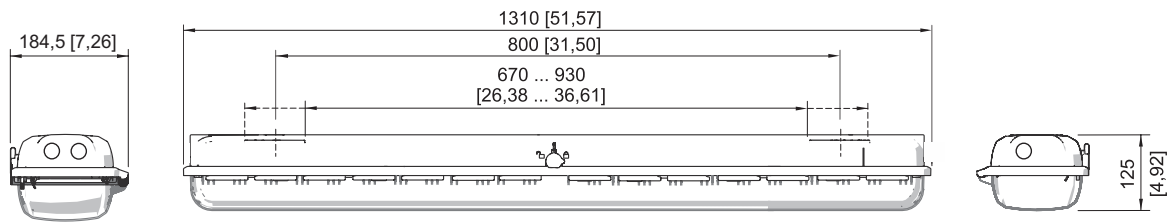
Size 2



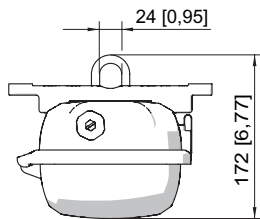
Size 4



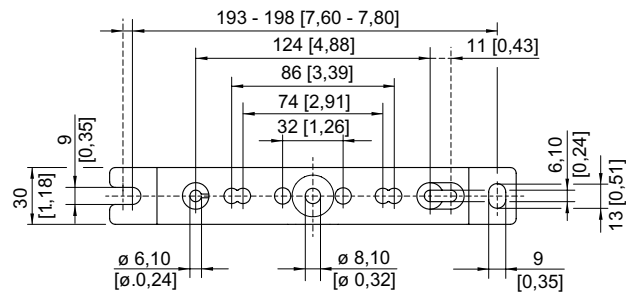
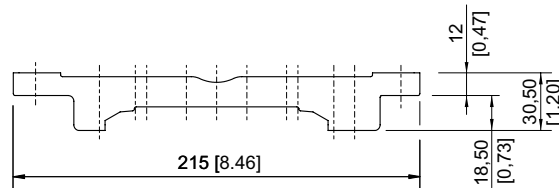
Size 2



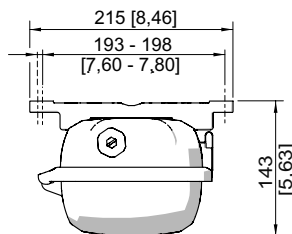
Size 4



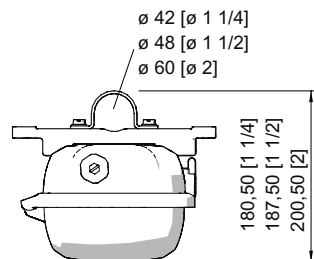
Mounting bracket fitted in mounting rail



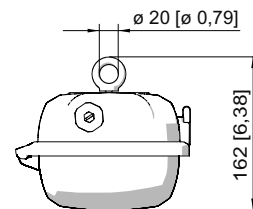
Mounting rail



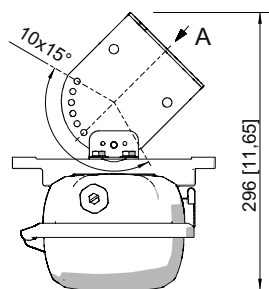
Mounting rail



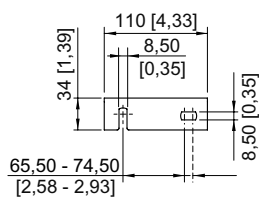
Pipe clamp fitted in mounting rail



Ring bolt fitted in insert nut of the luminaire



A



Wall mounting bracket fitted in mounting rail

Start-up current

$I_{peak} = 51 \text{ A}$; $\Delta t = 127 \mu\text{s}$

Maximum number of luminaires per miniature circuit breaker:

Type	10 A	16 A	20 A	25 A
B	12	19	24	31
C	20	33	41	51
K	41	66	82	103

typical value 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