

# Linear Luminaire with LED EXLUX

## Series 6002/4

STAHL



- The latest LED technology with a high luminous efficacy and a long service life
- Extremely high luminaire efficacy
- Luminous flux after 100,000 h still 90% of the starting luminous flux
- Optionally with DALI for controlling and monitoring the luminaire
- Optionally addressable for direct actuation of a common battery system

E2

WebCode 6002D



The linear luminaire with Series 6002/4 LED is ideal for lighting surfaces at a mounting height of up to 10 m. It can also be used to illuminate equipment and objects, both inside and outside. The pole mounting sleeve accessory can be used to easily mount the luminaire on poles. Optionally, the luminaire can be equipped with addressable equipment. It can be used to control and monitor the luminaire for the common battery systems.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Design size	2						
Translucent cover	clear						
Light distribution	120°x120° with diffusing glass						
Lamp wattage	22 W						
Luminous flux	2910 lm						
Luminaire efficacy	132 lm/W						
Product variant	Drilled holes	Threaded plate	Cable entries	Stopping plug	Product Type	Art. No.	Weight kg
Interfaces DALI	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4128-0110-172-1110-11-8500	272391	4.450
standard	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4128-0100-152-2220-22-8500	267067 ▲	4.400
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4128-0100-152-1110-11-8500	267058 ▲	4.450
with address module	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4128-0130-152-1110-11-8500	275740	4.500
Design size	2						
Translucent cover	diffuse						
Light distribution	120°x120°						
Lamp wattage	22 W						
Luminous flux	3230 lm						
Luminaire efficacy	132 lm/W						
Product variant	Drilled holes	Threaded plate	Cable entries	Stopping plug	Product Type	Art. No.	Weight kg
standard	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4124-0100-152-2220-22-850S	285108	4.350
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4124-0100-152-1110-11-850S	285105	4.400

## Selection Table

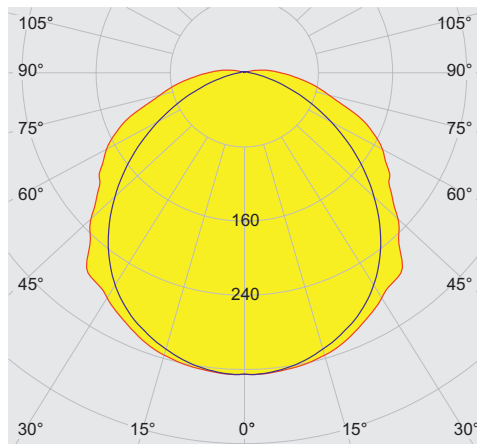
Design size	4						
Translucent cover	clear						
Light distribution	120°x120° with diffusing glass						
Lamp wattage	42 W						
Luminous flux	5810 lm						
Luminaire efficacy	138 lm/W						
Product variant	Drilled holes	Threaded plate	Cable entries	Stopping plug	Product Type	Art. No.	Weight kg
Interfaces DALI	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4148-0110-172-2220-22-8500	274963	6.900
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4148-0110-172-1110-11-8500	267087	6.900
standard	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4148-0100-152-2220-22-8500	267077	6.900
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4148-0100-152-1110-11-8500	267074 ▲	6.900
with address module	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4148-0130-152-2220-22-8500	277241	6.900
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4148-0130-152-1110-11-8500	275741	6.900
Design size	4						
Translucent cover	diffuse						
Light distribution	120°x120°						
Lamp wattage	42 W						
Luminous flux	6460 lm						
Luminaire efficacy	138 lm/W						
Product variant	Drilled holes	Threaded plate	Cable entries	Stopping plug	Product Type	Art. No.	Weight kg
standard	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4144-0100-152-2220-22-850S	285109	6.850
	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4144-0100-152-1110-11-850S	285106	6.850
Design size	6						
Translucent cover	clear						
Light distribution	120°x120° with diffusing glass						
Lamp wattage	50 W						
Luminous flux	6960 lm						
Luminaire efficacy	139 lm/W						
Product variant	Drilled holes	Threaded plate	Cable entries	Stopping plug	Product Type	Art. No.	Weight kg
standard	3 x M25	2x plastic	2 x M25 Ø 7 – 17 mm	2 x M25 x 1.5	6002/4168-0200-152-1110-11-8500	278349	8.000
without address module	3 x M20	2x SS430 stainless steel	Can be ordered as accessories	Can be ordered as accessories	6002/4168-0200-152-2220-22-8500	278346	8.000
Cable entries and stopping plugs made from moulded material are included loose with the product (installation required). Threaded plate included.							
The light fittings are supplied without mounting material.							

## Technical Data

Variant	Size 2, size 4 standard + DALI	Size 6 standard + DALI	Size 2, size 4 with address module
Explosion Protection			
IECEx gas explosion protection	Ex db eb ib mb op is IIC T4 Gb	Ex db eb ib mb op is IIC T4 Gb	Ex db eb ib mb op is IIC T4 Gb
IECEx dust explosion protection	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb ib mb op is IIC T4 Gb	Ⓔ II 2 G Ex db eb ib mb op is IIC T4 Gb	Ⓔ II 2 G Ex db eb ib mb op is IIC T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db
Certificates	ATEX (IBE), Brazil (ULB), China (CQST), EAC (ENDCE), IECEx (IBE), India (PESO), Japan (CML), Polen (CNBOP), Taiwan (ITRI)	ATEX (IBE), Brazil (ULB), China (CQST), IECEx (IBE)	ATEX (IBE), Brazil (ULB), China (CQST), EAC (ENDCE), IECEx (IBE), India (PESO), Japan (CML), Polen (CNBOP)

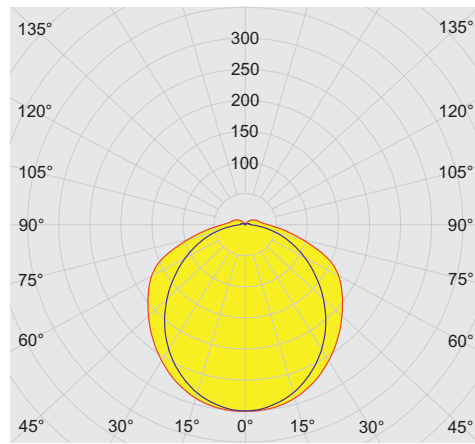
Technical Data			
Variant	Size 2, size 4 standard + DALI	Size 6 standard + DALI	Size 2, size 4 with address module
Electrical Data			
Rated operational voltage AC	100 – 240 V	110 – 240 V	220 – 240 V
Rated operational voltage DC	110 – 250 V	110 – 250 V	194 – 250 V
Frequency range	50 – 60 Hz	50 – 60 Hz	50 Hz
Ambient Conditions			
Ambient temperature	-40 °C ... +50 °C Note: Through wiring max. 3x16 A -40 °C ... +60 °C Note: Through wiring 2 max. 3x10 A	-20 °C ... +50 °C Note: Through wiring max. 3x16 A -20 °C ... +60 °C Note: Through wiring 2 max. 3x10 A	-40 °C ... +50 °C Note: Through wiring max. 3x16 A -40 °C ... +60 °C Note: Through wiring 2 max. 3x10 A
Lighting Data			
Number of lamps	1	1	1
Lamp	LED	LED	LED
Light colour	Neutral white	Neutral white	Neutral white
Colour rendering	≥ 80	≥ 80	≥ 80
Colour temperature	5000 K	5000 K	5000 K
Notes	warm white: 4000 K neutral white: 5000 K		
Mechanical Data			
Impact strength (IEC 62262)	IK10	IK10	IK10
Degree of protection IP (IEC 60598)	IP66/IP67	IP66	IP66/IP67
Enclosure colour	Light grey (RAL 7035)	Light grey (RAL 7035)	Light grey (RAL 7035)
Enclosure material	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced	Polyester resin, Glass fibre reinforced
Diffuser	With diffuser	With diffuser	With diffuser
Sealing material	Silicone	Silicone	Silicone
Connection terminals solid max.	6 mm²	6 mm²	6 mm²
Connection terminals finely-stranded max.	4 mm²	4 mm²	4 mm²
Type of connection cable	Solid Finely stranded	Finely stranded Solid	Finely stranded Solid
Notes	Connection terminals: Spring clamp terminal (2 free clamping units per pole)		
Components			
Ballast	6045/211-120-10	6045/211-110-10	6045/212-122-10
Through wiring	With 5 conductors 2.5 mm²	With 5 conductors 2.5 mm²	With 5 conductors 2.5 mm²
Material cable gland	Polyamide, black	Polyamide, black	Polyamide, black
Stopping plug material	Polyamide, black	Polyamide, black	Polyamide, black

### Light Distribution Curves – Subject to Alterations



cd/klm  
— C0 - C180 — C90 - C270

typical with diffuser, clear translucent cover





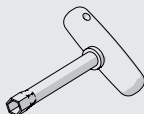
cd/klm  
— C0 - C180 — C90 - C270

typical without diffuser, diffuse translucent cover

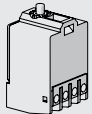
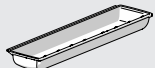
### Accessories

Figure	Description	Art. No.	Weight kg
<b>Breather</b>			
	Thread: M25 x 1.5; 1 pc; for installation in lights; in moulded material; without counter nut	138573 ▲	0.010
	Thread: M25 x 1.5; 20 pc; for installation in lights; in moulded material; without counter nut	138576 ▲	0.200
<b>Ceiling and wall mounting bracket</b>			
	mounted on a mounting rail for a variable mounting distance; Material: stainless steel; Lamp can be swiveled in steps of 15°; 1 pair	222827 ▲	1.200
<b>Cover</b>			
	for luminaire size 2 (diffuse), the visibility of the indicator LED may be restricted when used on a single supplied emergency luminaire	276669	1.000
	for luminaire size 4 (diffuse), the visibility of the indicator LED may be restricted when used on a single supplied emergency luminaire	276670	1.200
<b>Mounting bracket</b>			
	mounting clamp mounted on a mounting rail for a variable mounting distance; 1 pair	222456 ▲	0.400
<b>Mounting rail</b>			
	for a variable mounting distance; 1 pair	222826 ▲	0.350
<b>Pipe clamp</b>			
	R 1 1/2"; with mounting rail for a variable mounting distance; Material: stainless steel; 1 pair	222459 ▲	0.700
	R 1 1/4"; with mounting rail for a variable mounting distance; Material: stainless steel; 1 pair	222458 ▲	0.700
	R 2"; with mounting rail for a variable mounting distance; Material: stainless steel; 1 pair	222460 ▲	0.750

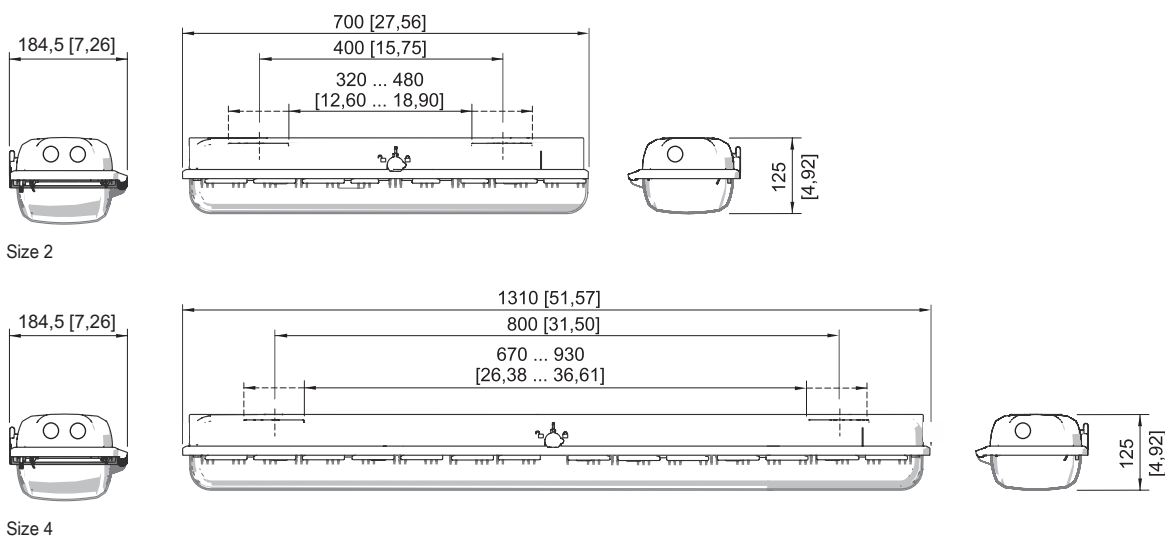
## Accessories

Figure	Description	Art. No.	Weight kg
<b>Pole mounting sleeve</b>			
	for the subsequent mounting on lights size 2 and size 4, completely with assembly parts (for pipe diameter 42 mm)	227512 ▲	3.200
<b>Ring bolt</b>			
	M8, direct mounting in insert nuts; 1 pair	115736 ▲	0.115
<b>Socket key</b>			
	M8 / wrench size 13; to open/close the central locking	222430 ▲	0.110

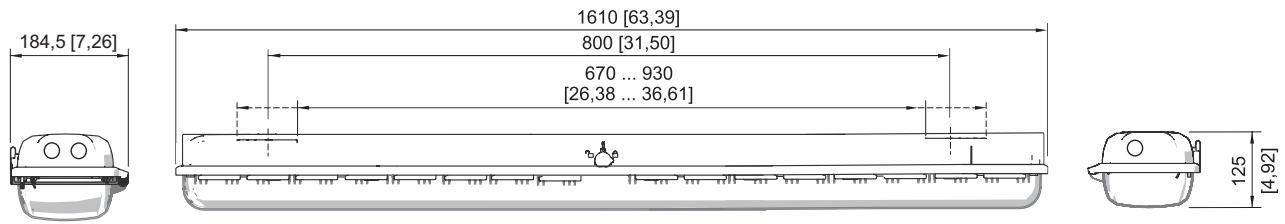
## Spare Parts

Figure	Description	Art. No.	Weight kg
<b>Contact element</b>			
	8080/1-3-L 2 NC contact element	132527	0.026
<b>Cover</b>			
	for luminaire size 4	222428	1.149
	for luminaire size 2	222427	0.639

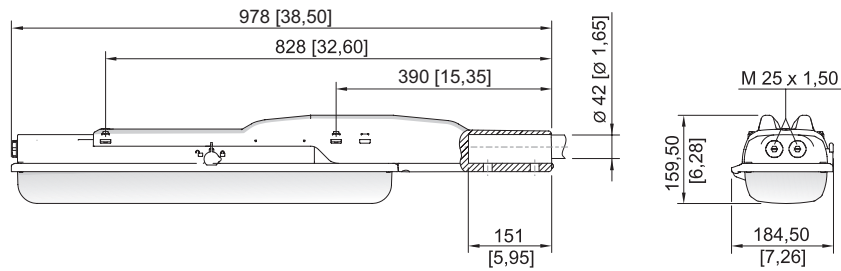
## Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



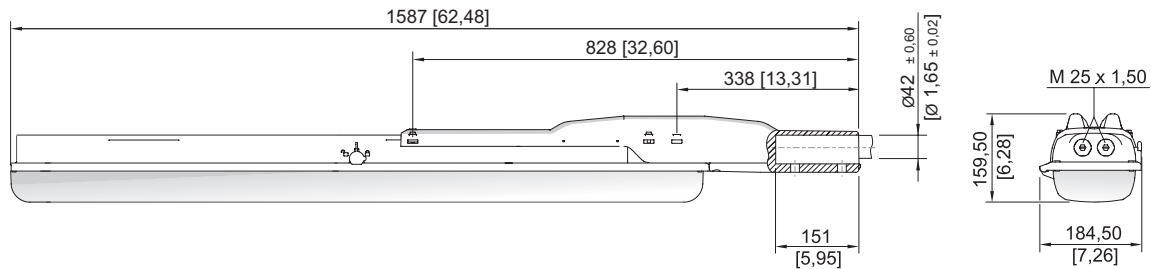
E2



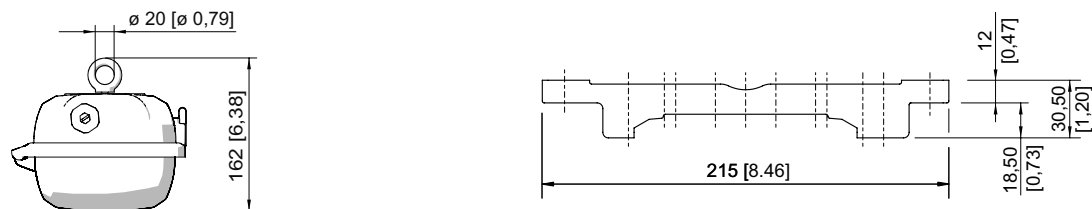
Size 6



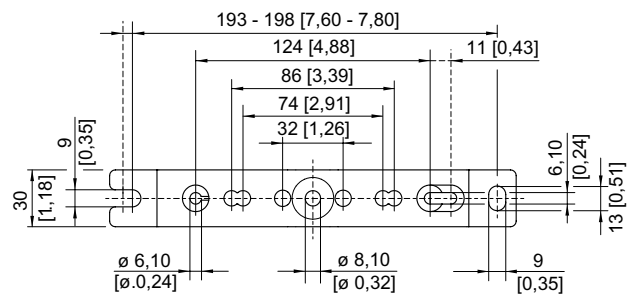
Size 2



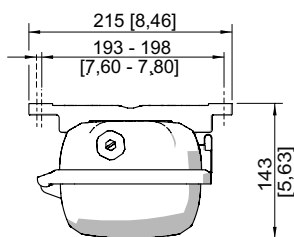
Size 4



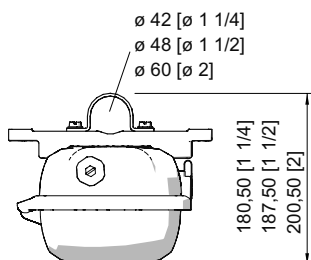
Ring bolt fitted in insert nut of the luminaire



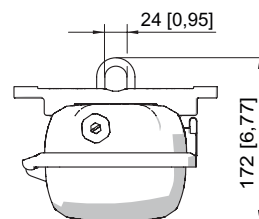
Mounting rail



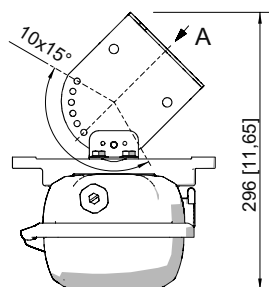
Mounting rail



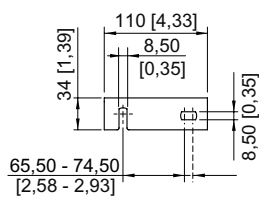
Pipe clamp fitted in mounting rail



Mounting bracket fitted in mounting rail



A



Wall mounting bracket fitted in mounting rail

## Inrush 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