



- Extremely compact and robust light fitting for general lighting applications
- Vibration-proof, sturdy and low-maintenance
- Optionally available with DALI interface or address module for operation in central battery systems.
- IP66/IP67 and IP68 degree of protection
- Suitable for operation in extreme ambient temperatures from -55 °C to +70 °C

E2

MY R. STAHL 6036B



The Series 6036 compact LED tubular light fitting is ideal for general lighting applications and for use as a machine luminaire, even in hard-to-reach areas with very little space. This light fitting boasts a long service life of up to 100,000 hours thanks to its use of energy-efficient LED technology, coupled with electronics that have been developed in-house by R. STAHL.

Due to its robust design, it can withstand extreme temperatures of between -55 °C and +70 °C.

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

Selection Table							
Size		1					
Cable length	Light colour	Luminaire efficacy	Luminous flux	Colour temperature	Product Type	Art. No.	Weight
2.5 m	850 to 5000 K CRI80	116 lm/W	1510 lm	5000 K	6036/31101-42500-111025-850-0000ST00	319507	1.54 kg
5 m	053 – green (530 nm)	85 lm/W	1110 lm	–	6036/31101-42500-111050-053-0000ST00	317332	1.85 kg
	850 to 5000 K CRI80	116 lm/W	1510 lm	5000 K	6036/31101-42500-111050-850-0000ST00	316968	1.84 kg
	Warm neutral white CRI90	104 lm/W	1350 lm	4000 K	6036/31101-42500-111050-940-0000ST00	317333	1.84 kg
10 m	850 to 5000 K CRI80	116 lm/W	1510 lm	5000 K	6036/31101-42500-111100-850-0000ST00	317334	2.44 kg
Size		2					
Cable length	Light colour	Luminaire efficacy	Luminous flux	Colour temperature	Product Type	Art. No.	Weight
2.5 m	850 to 5000 K CRI80	127 lm/W	3050 lm	5000 K	6036/31201-42500-111025-850-0000ST00	319508	1.84 kg
5 m	850 to 5000 K CRI80	127 lm/W	3050 lm	5000 K	6036/31201-42500-111050-850-0000ST00	316969	2.14 kg
	Warm neutral white CRI90	113 lm/W	2700 lm	4000 K	6036/31201-42500-111050-940-0000ST00	317336	2.14 kg
10 m	850 to 5000 K CRI80	127 lm/W	3050 lm	5000 K	6036/31201-42500-111100-850-0000ST00	317337	2.74 kg
Size		3					
Cable length	Light colour	Luminaire efficacy	Luminous flux	Colour temperature	Product Type	Art. No.	Weight
2.5 m	850 to 5000 K CRI80	128 lm/W	4620 lm	5000 K	6036/31301-44500-111025-850-0000ST00	319509	2.34 kg

Selection Table

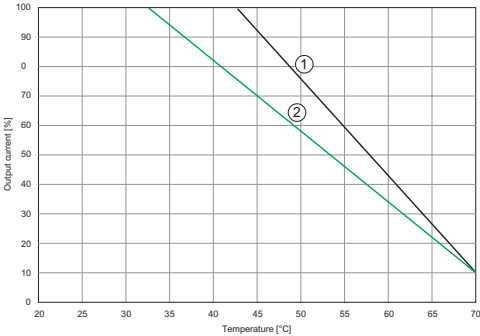
Size 3							
Cable length	Light colour	Luminaire efficacy	Luminous flux	Colour temperature	Product Type	Art. No.	Weight
5 m	053 – green (530 nm)	94 lm/W	3370 lm	–	6036/31301-44500-111050-053-0000ST00	317338	2.67 kg
	850 to 5000 K CRI80	128 lm/W	4620 lm	5000 K	6036/31301-44500-111050-850-0000ST00	319531	2.64 kg
	Warm neutral white CRI90	113 lm/W	4050 lm	4000 K	6036/31301-44500-111050-940-0000ST00	317339	2.64 kg
10 m	850 to 5000 K CRI80	128 lm/W	4620 lm	5000 K	6036/31301-44500-111100-850-0000ST00	317340	3.24 kg
Size 4							
Cable length	Light colour	Luminaire efficacy	Luminous flux	Colour temperature	Product Type	Art. No.	Weight
2.5 m	850 to 5000 K CRI80	129 lm/W	6040 lm	5000 K	6036/31401-44500-111025-850-0000ST00	319510	2.65 kg
5 m	053 – green (530 nm)	96 lm/W	4490 lm	–	6036/31401-44500-111050-053-0000ST00	317341	2.99 kg
	850 to 5000 K CRI80	129 lm/W	6040 lm	5000 K	6036/31401-44500-111050-850-0000ST00	319532	2.95 kg
	Warm neutral white CRI90	115 lm/W	5400 lm	4000 K	6036/31401-44500-111050-940-0000ST00	317342	2.95 kg
10 m	850 to 5000 K CRI80	129 lm/W	6040 lm	5000 K	6036/31401-44500-111100-850-0000ST00	317343	3.55 kg

Technical Data

Variant	5000 K	4000 K
Explosion Protection		
IECEx gas explosion protection	Ex db op is IIC T4 Gb	Ex db op is IIC T4 Gb
IECEx dust explosion protection	Ex tb IIIC T100 °C Db	Ex tb IIIC T100 °C Db
ATEX gas explosion protection	⊕ II 2 G Ex db op is IIC T4 Gb	⊕ II 2 G Ex db op is IIC T4 Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T100 °C Db	⊕ II 2 D Ex tb IIIC T100 °C Db
Certificates	ATEX (BVIS), IECEx (BVIS)	ATEX (BVIS), IECEx (BVIS)
Declaration of Conformity	ATEX (EUK)	ATEX (EUK)
Electrical Data		
Rated operational voltage AC	100 ... 277 V	100 ... 277 V
Rated operational voltage DC	190 ... 250 V	190 ... 250 V
Frequency range	50 – 60Hz	50 – 60Hz
Ambient Conditions		
Ambient temperature	-55 °C ... 70 °C switch on above -40 °C	-55 °C ... 70 °C switch on above -40 °C
Storage temperature	-40 °C ... 70 °C	-40 °C ... 70 °C
Lighting Data		
Light distribution	140° with diffusing glass	140° with diffusing glass
Colour rendering	≥ 80	≥ 90
Note	Values apply to T _a = +25 °C	Values apply to T _a = +25 °C
Mechanical Data		
IP degree of protection (IEC 60598)	IP66 / IP68 (10 m / 60 min)	IP66 / IP68 (10 m / 60 min)
Class	II	II
Enclosure material	Polycarbonate	Polycarbonate
Pipe material	Polycarbonate	Polycarbonate
Type of connection cable	H07RN8-F 2x1.5 mm ²	H07RN8-F 2x1.5 mm ²
Impact strength (IEC 62262)	IK11	IK11
Notes	Standard cable: H07RN8-F Additional cable types possible: BFOU P5-P12, Radox MFH-S B, (N)SSHÖU, HXSLHXÖ-J	

Technical Drawings – Subject to Alterations

E2

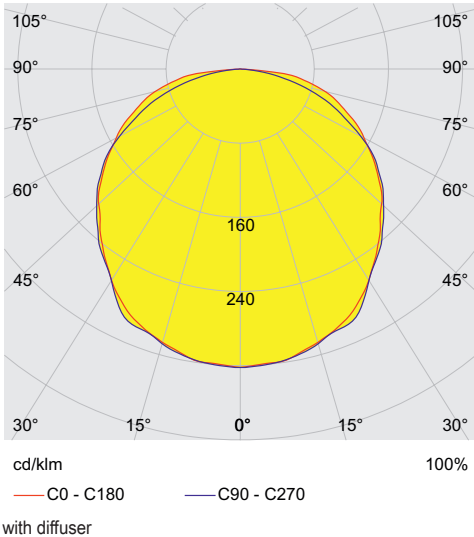


Luminous flux decline

- In DC operation to 50%
- Relative to ambient temperature

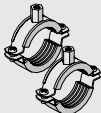
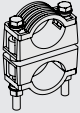
1: All white tones, size 1 to 4
 2: All colours, size 1 to 4

Light Distribution Curves – Subject to Alterations

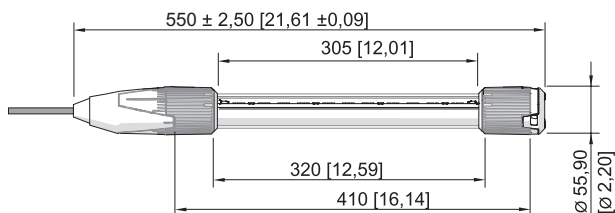


Accessories			
Figure	Description	Art. No.	Weight
Plug			
	8570/12-306-S-XX-X-XX-XXX 3-pole plug, 200 to 250 V AC, 50 / 60 Hz, 16 A	272898	331 g

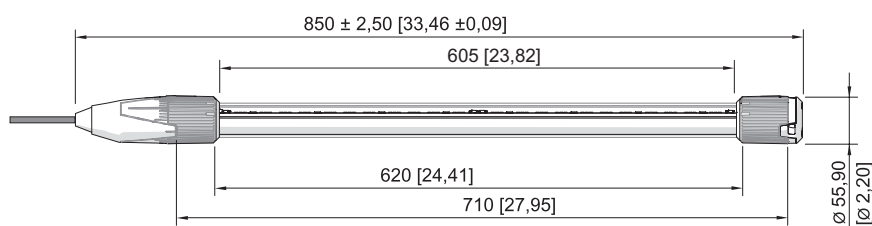
Accessories

Figure	Description	Art. No.	Weight
Mounting bracket			
	Mounting bracket made of galvanised sheet steel to screw onto thread M8 or M10 (2 pieces)	227256	190 g
	Mounting bracket made of stainless steel V4A to screw onto thread M8 or M10 (2 pieces)	227257	180 g
	Double plastic mounting clamp for mounting on pipes with a diameter of 45 to 55 mm (screws and nuts made from stainless steel V2A) (2 pieces)	254932	800 g
	Mounting bracket made from galvanised sheet steel (x 2 units); for design size 1	120535	48 g
	Mounting plate made of stainless steel V4A for terminal box Ex e Series 8010 (for example Art. No. 130724) for fastening on mounting bracket Art. No. 252940	254494	700 g
Mounting bracket and magnet			
	Mounting bracket made from galvanised sheet steel with magnetic base (x 2 units); for design size 1	120536	100 g

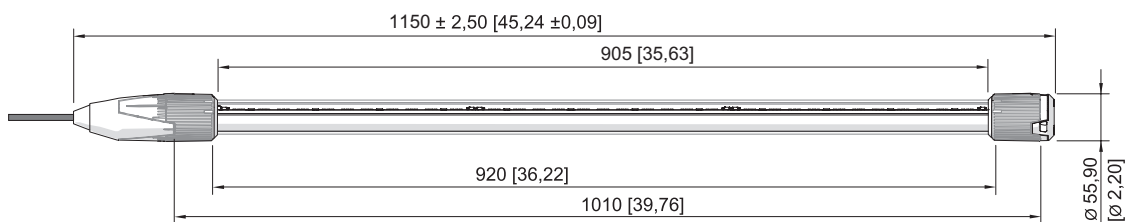
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Design size 1



Design size 2



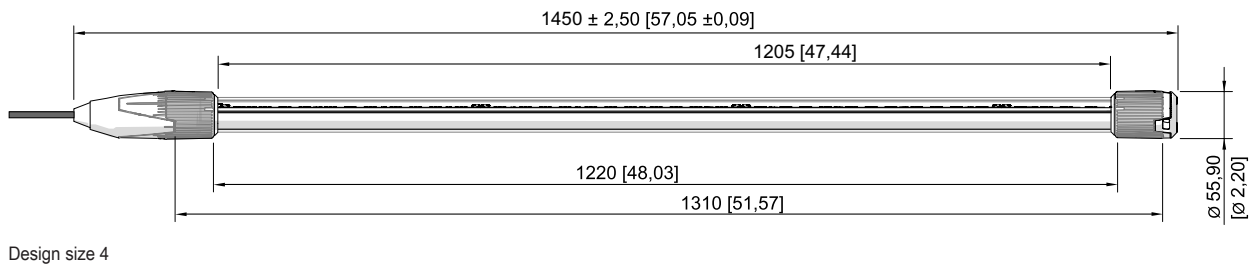
Design size 3

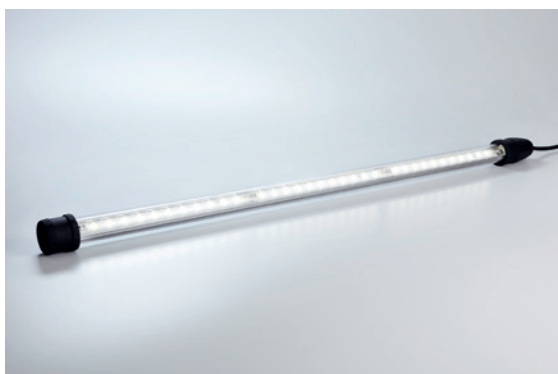
Tubular light fitting with LED

Series 6036



E2





- Degree of protection IP66 and IP68
- Type of protection Ex d
- Vibration-resistant, lightweight, robust (impact strength rating of IK10) and maintenance-free
- Many light fittings can be connected to single miniature circuit breaker due to incredibly low start-up current

E2

MY R. STAHL 6036A



The 6036 series compact LED tubular light fitting is ideal for general lighting applications and for use as machine lighting, even in relatively inaccessible places with very little space. This light boasts a long service life of up to 100,000 hours thanks to its use of energy-efficient LED technology, coupled with electronics that have been developed in-house by R. STAHL. Due to its robust construction, it can withstand extreme temperatures of between -55 °C and +60 °C.

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

Selection Table

Size		1				
Cable length		2.5 m				
Rated operational voltage AC		24 ... 48 V				
Rated operational voltage DC		24 ... 48 V				
Gas temperature class		T4				
Dust max. surface temperature		100 °C				
Ambient temperature		-40 °C ... +70 °C				
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Blue	27 lm/W	338 lm	H07RN8-F 2x1.5 mm²	6036/1212-053-0121-17	263762	1 kg
Green	53 lm/W	671 lm	H07RN8-F 2x1.5 mm²	6036/1212-053-0121-14	262509	1 kg
Neutral white	104 lm/W	1396 lm	H07RN8-F 2x1.5 mm²	6036/1212-453-0121-11	274308	1 kg
Red	45 lm/W	475 lm	H07RN8-F 2x1.5 mm²	6036/1212-053-0121-16	262510	1 kg
Size		1				
Cable length		2.5 m				
Rated operational voltage AC		110 ... 240 V				
Rated operational voltage DC		110 ... 240 V				
Gas temperature class		T4				
Dust max. surface temperature		100 °C				
Ambient temperature		-30 °C ... +70 °C				
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Blue	27 lm/W	338 lm	H07RN8-F 2x1.5 mm²	6036/1212-055-0121-17	263763	1 kg
Green	53 lm/W	671 lm	H07RN8-F 2x1.5 mm²	6036/1212-055-0121-14	262541	1 kg
Neutral white	104 lm/W	1396 lm	H07RN8-F 2x1.5 mm²	6036/1212-455-0121-11	274268	1 kg
Red	45 lm/W	475 lm	H07RN8-F 2x1.5 mm²	6036/1212-055-0121-16	262542	1 kg

Selection Table

Size	1					
Cable length	2.5 m					
Rated operational voltage DC	12 V					
Gas temperature class	T4					
Dust max. surface temperature	100 °C					
Ambient temperature	-40 °C ... +40 °C					
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Neutral white	104 lm/W	1396 lm	H07RN8-F 2x1.5 mm ²	6036/1212-452-0121-11	274365	1 kg
Size	2					
Cable length	5 m					
Rated operational voltage AC	220 ... 240 V					
Rated operational voltage DC	209 ... 240 V					
Gas temperature class	T4					
Dust max. surface temperature	100 °C					
Ambient temperature	-50 °C ... +60 °C (Energise above -40 °C)					
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Neutral white	109 lm/W	2768 lm	H07RN8-F 2x1.5 mm ²	6036/1225-450-0151-41	272550	1.9 kg
	111 lm/W	2834 lm	H07RN8-F 2x1.5 mm ²	6036/1225-450-0151-31	272547	1.8 kg
	112 lm/W	2847 lm	H07RN8-F 2x1.5 mm ²	6036/1225-450-0151-11	274207	1.73 kg
Size	3					
Cable length	5 m					
Rated operational voltage AC	220 ... 240 V					
Rated operational voltage DC	209 ... 240 V					
Gas temperature class	T4					
Dust max. surface temperature	100 °C					
Ambient temperature	-55 °C ... +60 °C (Energise above -40 °C)					
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Neutral white	113 lm/W	4147 lm	H07RN8-F 2x1.5 mm ²	6036/1235-450-0151-41	272551	2.2 kg
	115 lm/W	4246 lm	H07RN8-F 2x1.5 mm ²	6036/1235-450-0151-31	272548	2.1 kg
	116 lm/W	4266 lm	H07RN8-F 2x1.5 mm ²	6036/1235-450-0151-11	274227	2.09 kg
Size	4					
Cable length	5 m					
Rated operational voltage AC	220 ... 240 V					
Rated operational voltage DC	209 ... 240 V					
Gas temperature class	T4					
Dust max. surface temperature	100 °C					
Ambient temperature	-55 °C ... +60 °C (Energise above -40 °C)					
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Monochromatic yellow	37 lm/W	1543 lm	H07RN8-F 2x1.5 mm ²	6036/1248-050-0151-18	267771	2.35 kg
Neutral white	112 lm/W	5419 lm	H07RN8-F 2x1.5 mm ²	6036/1248-450-0151-41	272552	2.7 kg
	116 lm/W	5575 lm	H07RN8-F 2x1.5 mm ²	6036/1248-450-0151-11	274247	2.44 kg
		5549 lm	H07RN8-F 2x1.5 mm ²	6036/1248-450-0151-31	272549	2.5 kg
Yellow phosphorus converted	55 lm/W	3003 lm	H07RN8-F 2x1.5 mm ²	6036/1248-050-0151-15	259934	2.44 kg

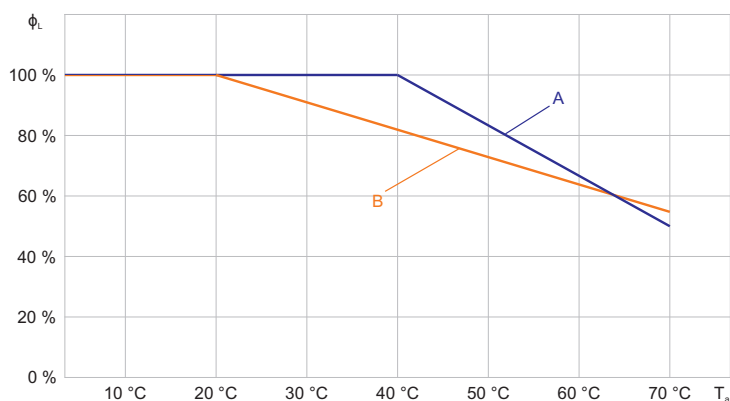
Technical Data

Variant	Size 1	Size 2	Size 3	Size 4
Explosion Protection				
IECEx gas explosion protection	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb
IECEx dust explosion protection	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db
ATEX gas explosion protection	⊕ II 2 G Ex db op is IIC T.. Gb	⊕ II 2 G Ex db op is IIC T.. Gb	⊕ II 2 G Ex db op is IIC T.. Gb	⊕ II 2 G Ex db op is IIC T.. Gb
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db	⊕ II 2 D Ex tb IIIC T.. Db
Certificates	ATEX (BVIS), IECEx (BVIS)	ATEX (BVIS), IECEx (BVIS)	ATEX (BVIS), IECEx (BVIS)	ATEX (BVIS), IECEx (BVIS)
Ship approval		DNVGL	DNVGL	DNVGL
Notes	For temperature classes and surface temperatures, see selection table			
Electrical Data				
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz

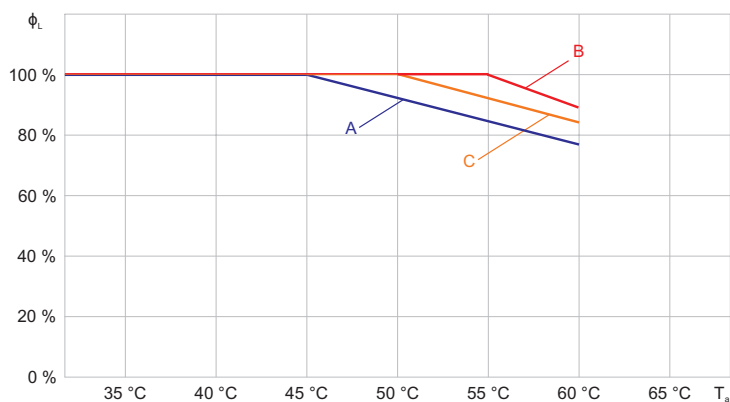
Technical Data

Variant	Size 1	Size 2	Size 3	Size 4
Ambient Conditions				
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C
Lighting Data				
Lamp wattage	13 W	28 W	37 W	49 W
Colour rendering	≥ 80	≥ 80	≥ 80	≥ 80
Note	Values apply to $T_a = +25 °C$	Values apply to $T_a = +25 °C$	Values apply to $T_a = +25 °C$	Values apply to $T_a = +25 °C$
Colour temperature	5000 K	5000 K	5000 K	5000 K
Mechanical Data				
Degree of protection (IP)	IP66 / IP67	IP66 / IP67	IP66 / IP67	IP66 / IP67
IP degree of protection (IEC 60598)	IP66 / IP68 (10 m / 60 min)	IP66 / IP68 (10 m / 60 min)	IP66 / IP68 (10 m / 60 min)	IP66 / IP68 (10 m / 60 min)
Class	II (double insulated)	II (double insulated)	II (double insulated)	II (double insulated)
Enclosure material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Pipe material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Impact strength (IEC 62262)	IK10	IK10	IK10	IK10
Notes	Standard cable: H07RN8-F Additional cable types available: BFOU P5-P12, Radox MFH-S B, (N)SSHÖU, HXSLHXÖ-J			

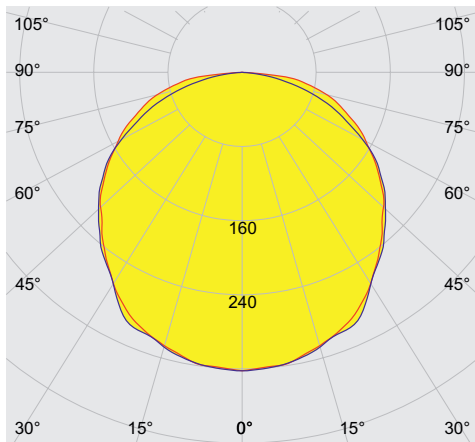
Technical Drawings – Subject to Alterations



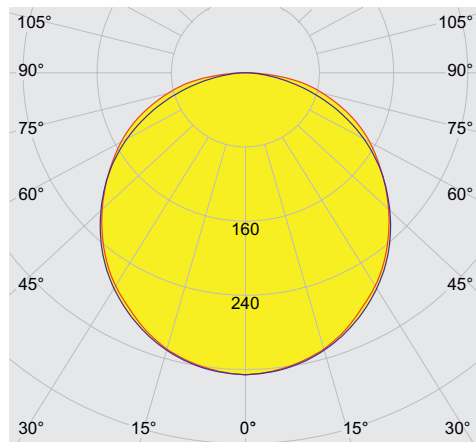
Luminous flux decline relative to ambient temperature
 A: Size 1 (110 to 240 V) B: Size 1 (24 to 48 V)



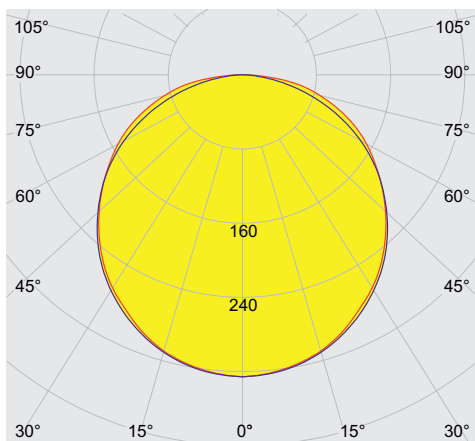
Luminous flux decline relative to ambient temperature
 A: Size 2 B: Size 3 C: Size 4



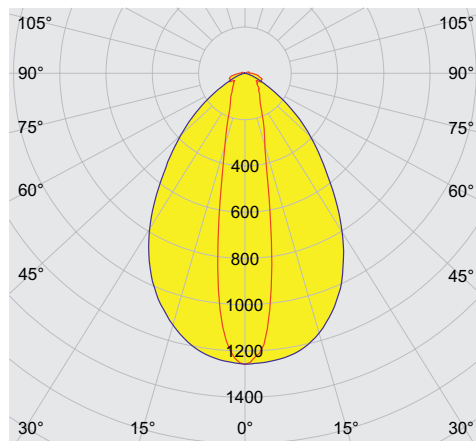
cd/klm 100%
— C0 - C180 — C90 - C270
with diffuser



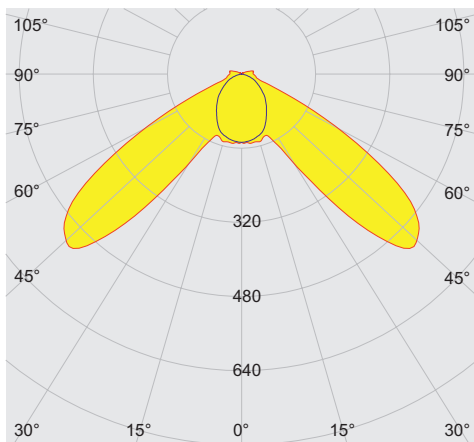
cd/klm 100%
— C0 - C180 — C90 - C270
with diffuser



cd/klm 100%
— C0 - C180 — C90 - C270
with diffuser



cd/klm 100%
— C0 - C180 — C90 - C270
cylinder optics 20°x160°



cd/klm

100%

— C0 - C180

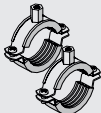
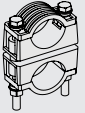
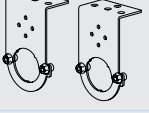
— C90 - C270

batwing lense

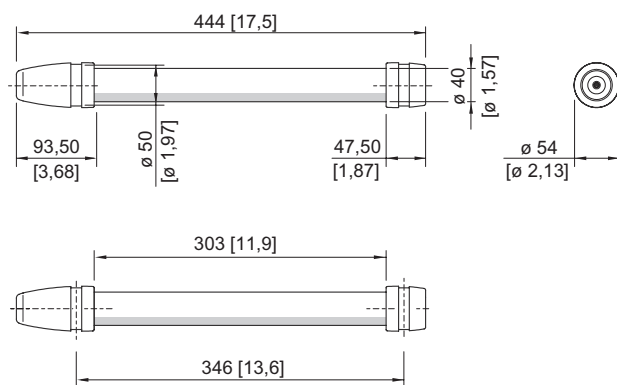
Accessories

Figure	Description	Art. No.	Weight
Plug			
	8573/12-200 2-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243197	300 g
	8573/12-210 2-pole, 20 to 25 V, DC, 16 A	243203	300 g
	8573/12-300 3-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243190	300 g
	8573/12-312 3-pole, 40 to 50 V, 50 / 60 Hz, 16 A	243195	300 g
	8570/12-304-S-XX-X-XX-XXX 3-pole plug, 100 to 130 V AC, 50/60 Hz, 16 A	272896	331 g
	8570/12-306-S-XX-X-XX-XXX 3-pole plug, 200 to 250 V AC, 50 / 60 Hz, 16 A	272898	331 g

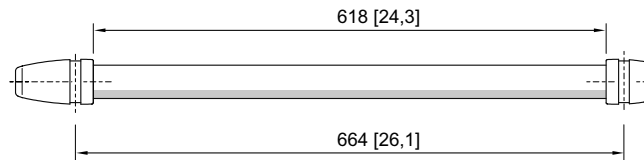
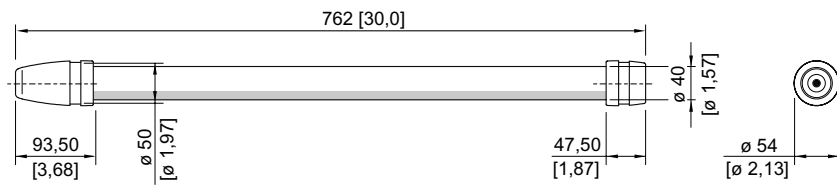
Accessories

Figure	Description	Art. No.	Weight
Mounting bracket			
	Mounting bracket made of galvanised sheet steel to screw onto thread M8 or M10 (2 pieces)	227256	190 g
	Mounting bracket made of stainless steel V4A to screw onto thread M8 or M10 (2 pieces)	227257	180 g
	Double plastic mounting clamp for mounting on pipes with a diameter of 45 to 55 mm (screws and nuts made from stainless steel V2A) (2 pieces)	254932	800 g
	Set of mounting plate Art. no. 254494 and mounting bracket Art. no. 252940	248100	850 g
	Mounting bracket made of stainless steel V4A for fastening on surfaces (2 pieces)	252940	400 g
	Mounting bracket made from galvanised sheet steel (x 2 units); for design size 1	120535	48 g
	Mounting plate made of stainless steel V4A for terminal box Ex e Series 8010 (for example Art. No. 130724) for fastening on mounting bracket Art. No. 252940	254494	700 g
Mounting bracket and magnet			
	Mounting bracket made from galvanised sheet steel with magnetic base (x 2 units); for design size 1	120536	100 g

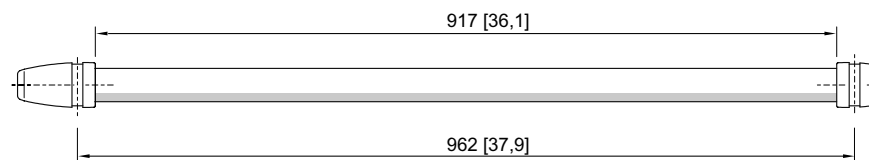
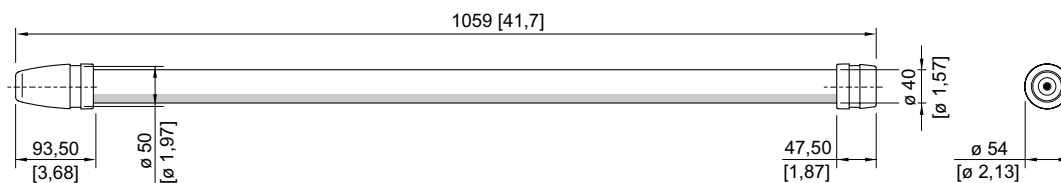
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



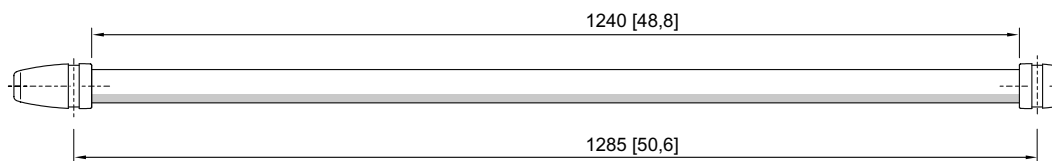
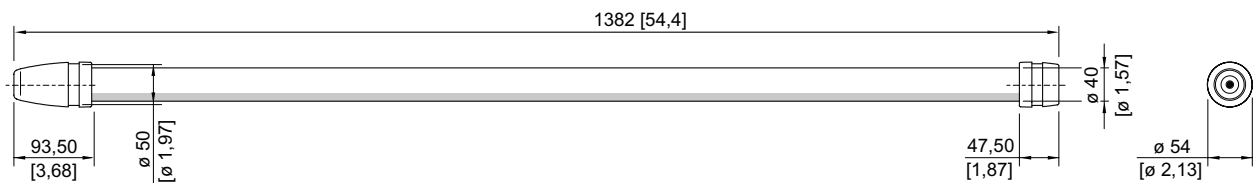
Design size 1



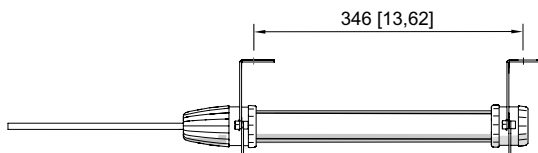
Design size 2



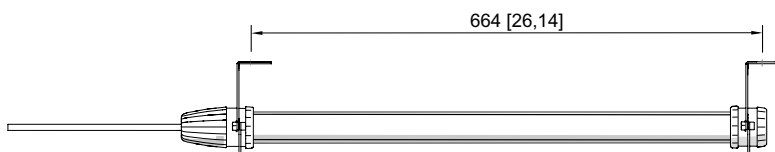
Design size 3



Design size 4

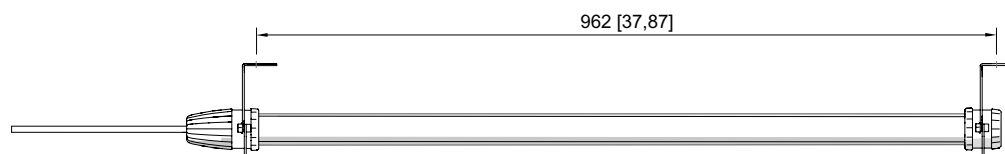


Luminaire with mounting bracket for a surface

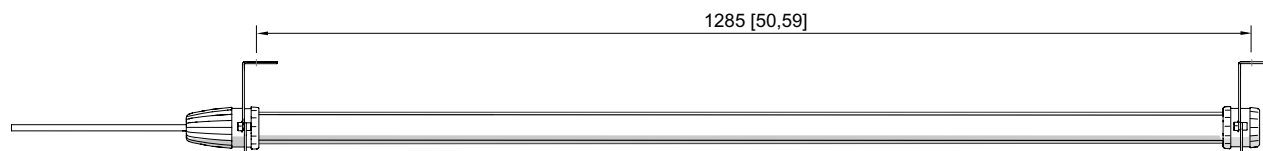


Luminaire with mounting bracket for a surface

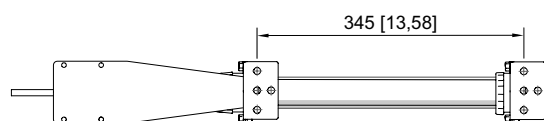
E2



Luminaire with mounting bracket for a surface



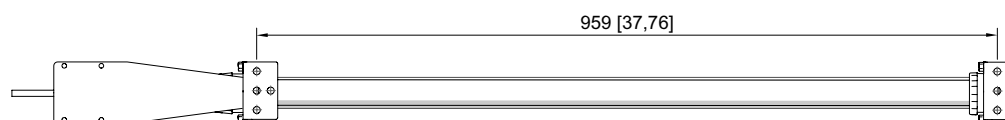
Luminaire with mounting bracket for a surface



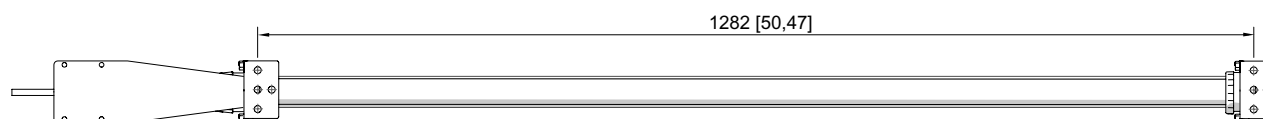
Light fitting with mounting clamp for surface and mounting plate



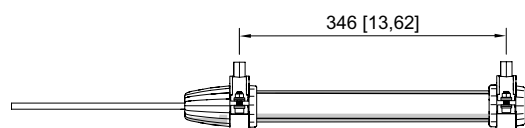
Luminaire with mounting bracket for a surface and mounting plate



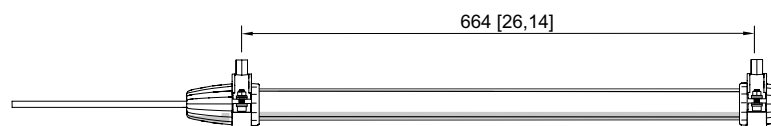
Luminaire with mounting bracket for a surface and mounting plate



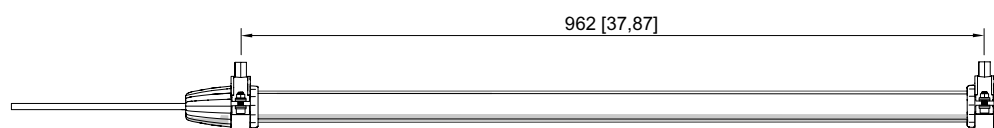
Luminaire with mounting bracket for a surface and mounting plate



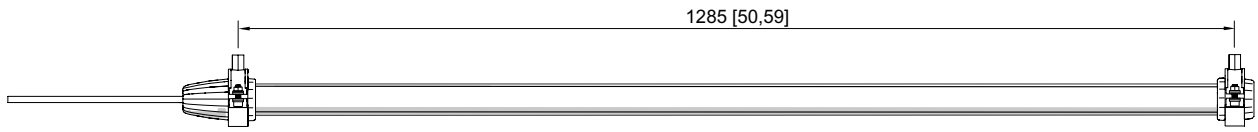
Luminaire with mounting bracket for a thread



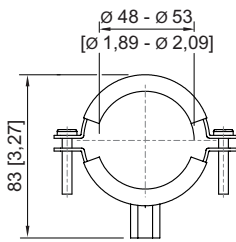
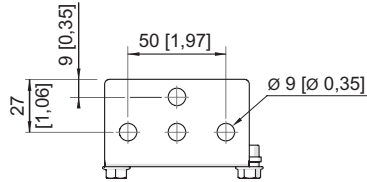
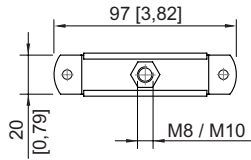
Luminaire with mounting bracket for a thread



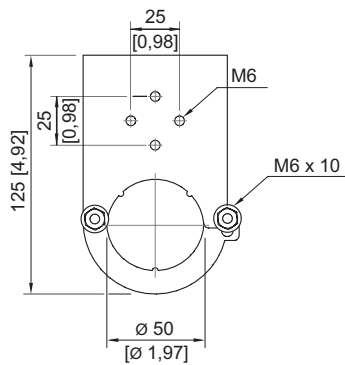
Luminaire with mounting bracket for a thread



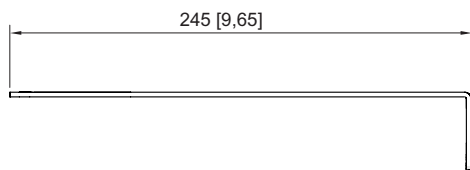
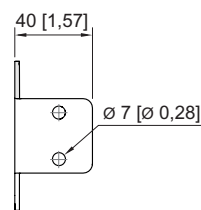
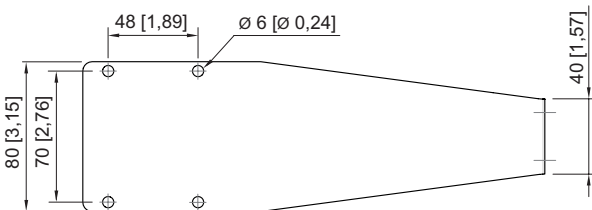
Luminaire with mounting bracket for a thread



Mounting bracket for a thread



Mounting bracket for surfaces



Mounting plate