

- 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 mm ²	6036/1212-053-0121-17	263762	1 kg
Green	53 lm/W	671 lm	H07RN8-F 2x1.5 mm ²	6036/1212-053-0121-14	262509	1 kg
Neutral white	104 lm/W	1396 lm	H07RN8-F 2x1.5 mm ²	6036/1212-453-0121-11	274308	1 kg
Red	45 lm/W	475 lm	H07RN8-F 2x1.5 mm ²	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 mm ²	6036/1212-055-0121-17	263763	1 kg
Green	53 lm/W	671 lm	H07RN8-F 2x1.5 mm ²	6036/1212-055-0121-14	262541	1 kg
Neutral white	104 lm/W	1396 lm	H07RN8-F 2x1.5 mm ²	6036/1212-455-0121-11	274268	1 kg
Red	45 lm/W	475 lm	H07RN8-F 2x1.5 mm ²	6036/1212-055-0121-16	262542	1 kg

Selection Table

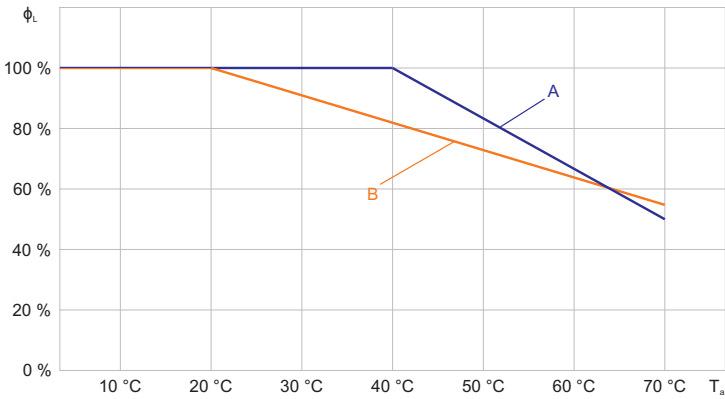
Size	1					
Cable length	2.5 m					
Rated operational voltage DC	12 V					
Gas temperature class	T4					
Dust max. surface temperature	100 °C					
Ambient temperature	-40 °C ... +40 °C					
Light colour	Luminaire efficacy	Luminous flux	Type of connection cable	Product Type	Art. No.	Weight
Neutral white	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

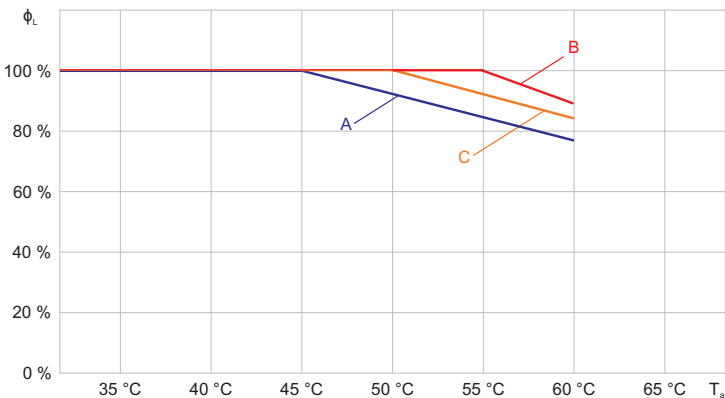
Variant	Size 1	Size 2	Size 3	Size 4
Explosion Protection				
IECEX gas explosion protection	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb	Ex db op is IIC T.. Gb
IECEX dust explosion protection	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db	Ex tb IIIC T.. Db
ATEX gas explosion 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 $T_a = +25\text{ °C}$	Values apply to $T_a = +25\text{ °C}$	Values apply to $T_a = +25\text{ °C}$	Values apply to $T_a = +25\text{ °C}$
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

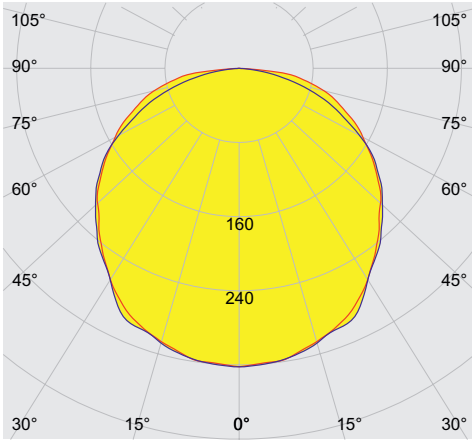


Luminous flux decline relative to ambient temperature
 A: Size 1 (110 to 240 V) B: Size 1 (24 to 48 V)

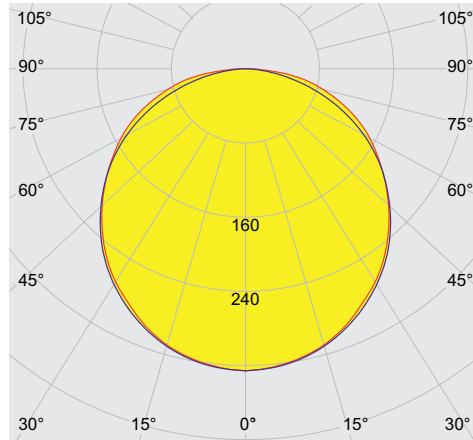


Luminous flux decline relative to ambient temperature
 A: Size 2 B: Size 3 C: Size 4

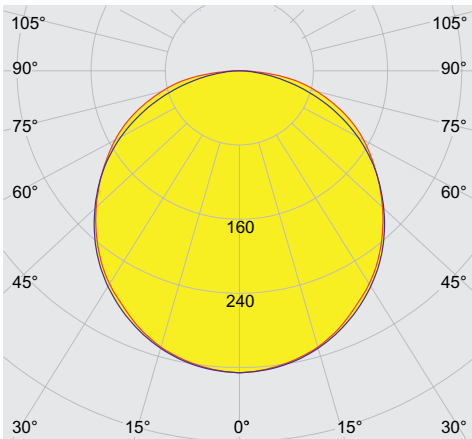
Light Distribution Curves – Subject to Alterations



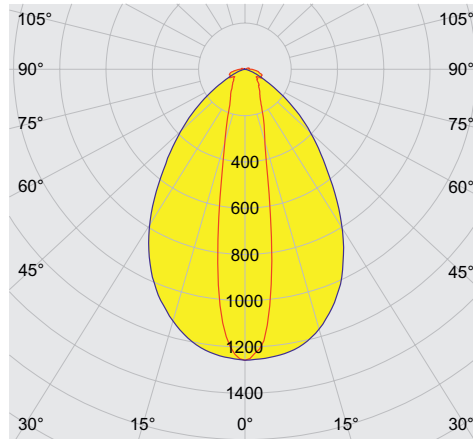
cd/klm 100%
— C0 - C180 — C90 - C270
with diffuser



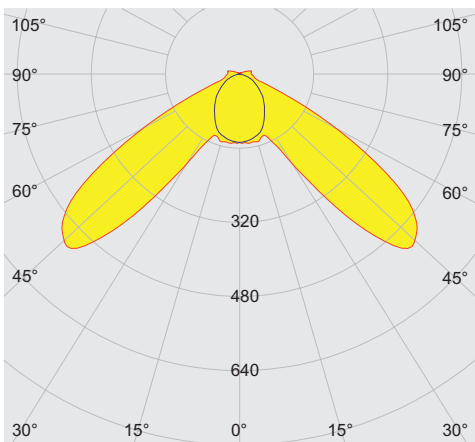
cd/klm 100%
— C0 - C180 — C90 - C270
with diffuser



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







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



cd/klm 100%

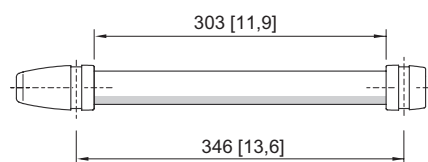
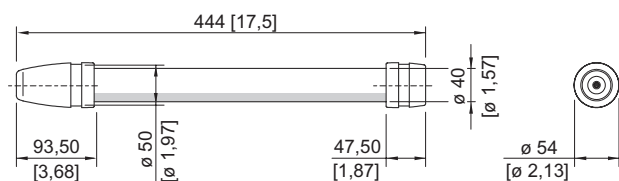
— C0 - C180 — C90 - C270

batwing lense

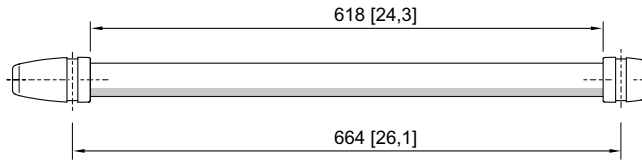
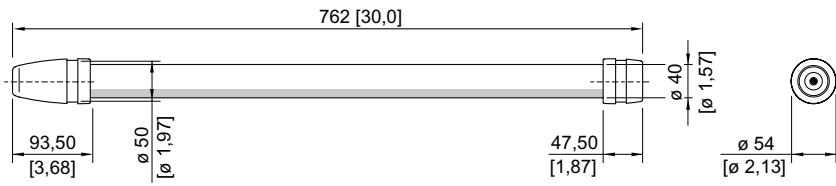
Accessories			
Figure	Description	Art. No.	Weight
Plug			
	8573/12-200 2-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243197	300 g
	8573/12-210 2-pole, 20 to 25 V, DC, 16 A	243203	300 g
	8573/12-300 3-pole, 20 to 25 V, 50 / 60 Hz, 16 A	243190	300 g
	8573/12-312 3-pole, 40 to 50 V, 50 / 60 Hz, 16 A	243195	300 g
	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 galvanized 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 galvanized 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 galvanized sheet steel with magnetic base (x 2 units); for design size 1	120536	100 g

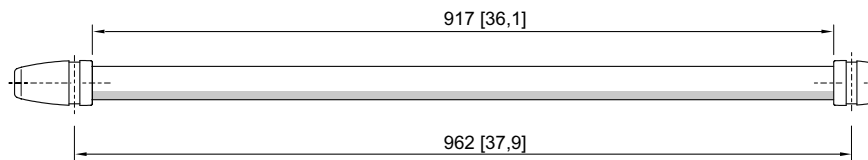
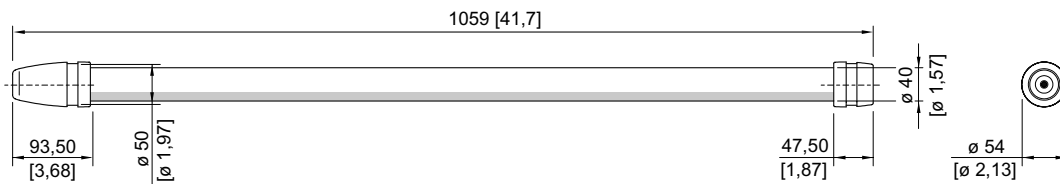
Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



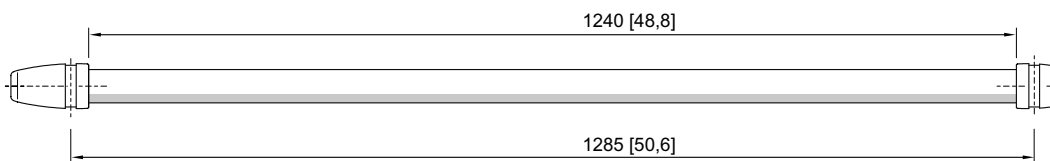
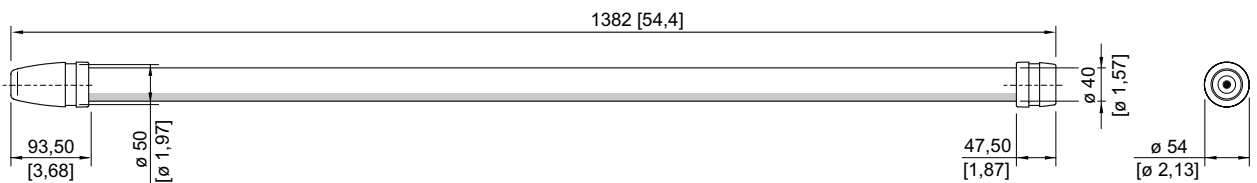
Design size 1



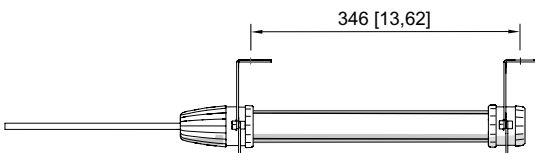
Design size 2



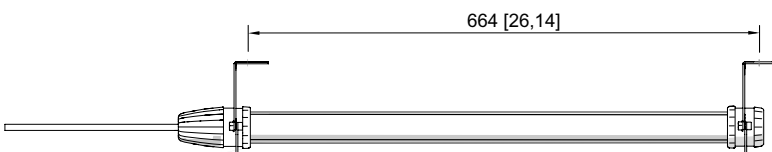
Design size 3



Design size 4

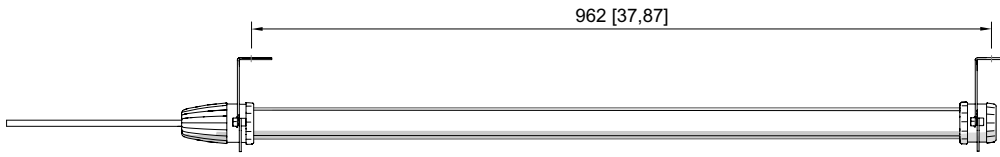


Luminaire with mounting bracket for a surface

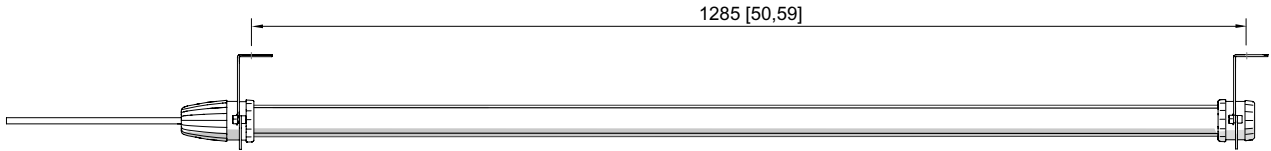


Luminaire with mounting bracket for a surface

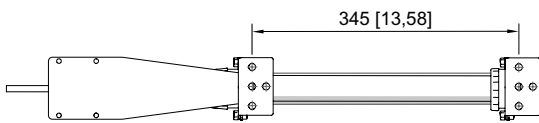
E2



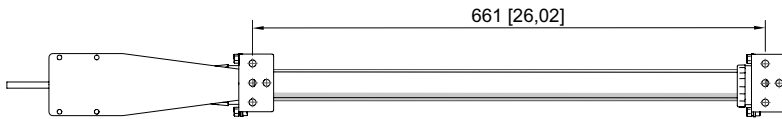
Luminaire with mounting bracket for a surface



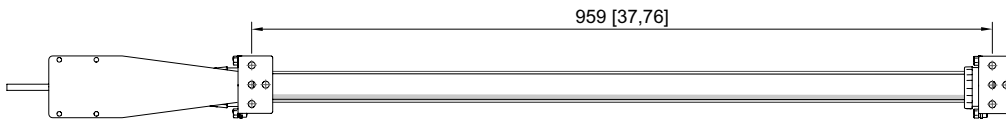
Luminaire with mounting bracket for a surface



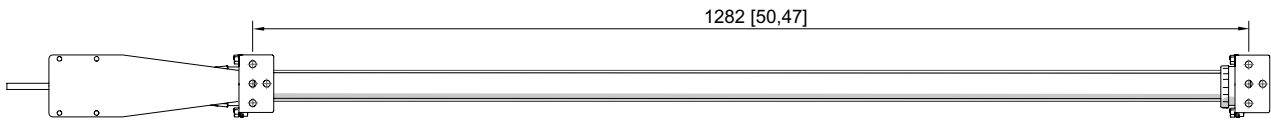
Light fitting with mounting clamp for surface and mounting plate



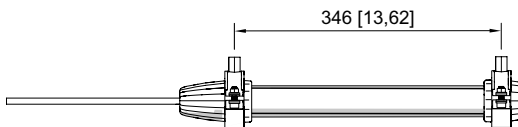
Luminaire with mounting bracket for a surface and mounting plate



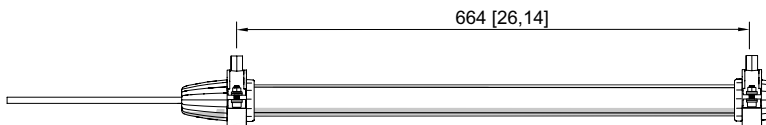
Luminaire with mounting bracket for a surface and mounting plate



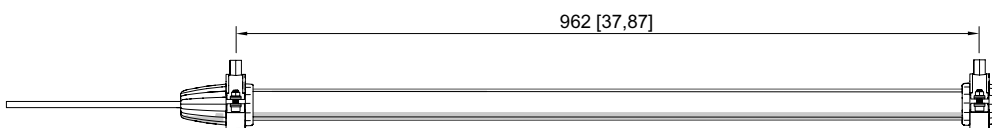
Luminaire with mounting bracket for a surface and mounting plate



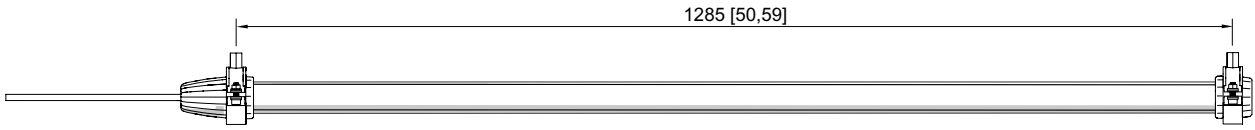
Luminaire with mounting bracket for a thread



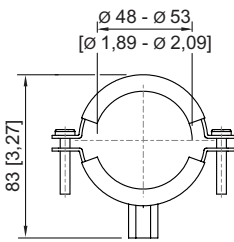
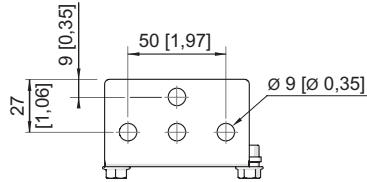
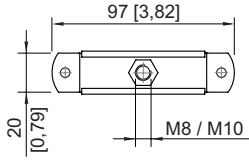
Luminaire with mounting bracket for a thread



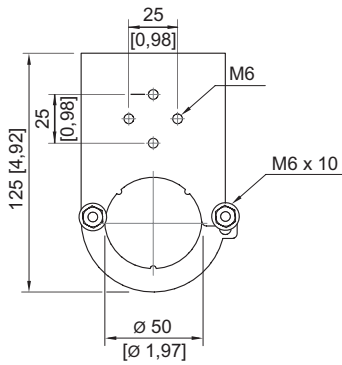
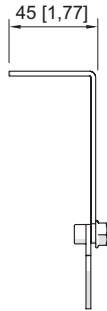
Luminaire with mounting bracket for a thread



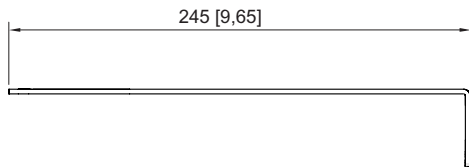
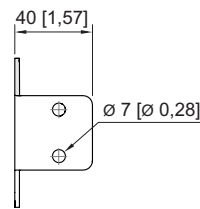
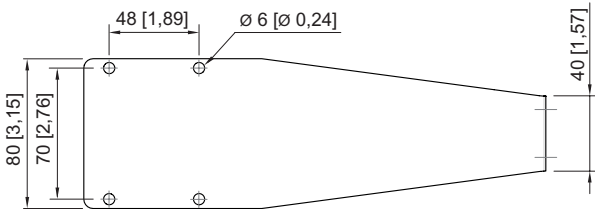
Luminaire with mounting bracket for a thread



Mounting bracket for a thread



Mounting bracket for surfaces



Mounting plate