

- 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

WebCode **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		•	•		•	•

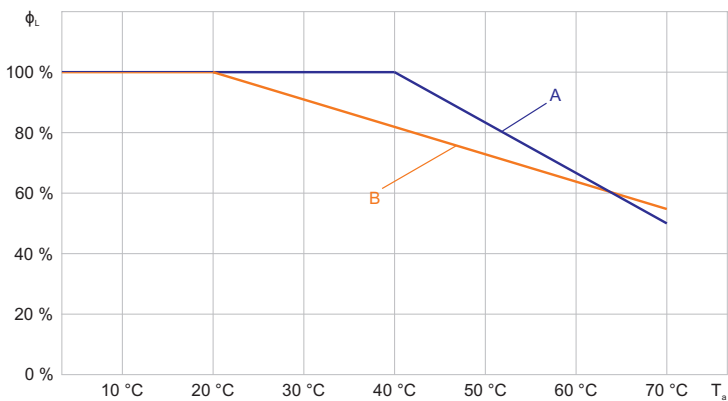
Selection Table						
Design size	1					
Cable length	2.5 m					
Rated operational voltage AC	24 – 48 V					
Rated operational voltage DC	24 – 48 V					
Gas temperature class	T4					
Dust maximum surface temperature	100 °C					
Ambient temperature	-40 °C ... +70 °C					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Blue	With diffuser	27 lm/W	338 lm	6036/1212-053-0121-17	263762	1.000
Green	With diffuser	53 lm/W	671 lm	6036/1212-053-0121-14	262509	1.000
Neutral white	With diffuser	104 lm/W	1396 lm	6036/1212-453-0121-11	274308	1.000
Red	With diffuser	45 lm/W	475 lm	6036/1212-053-0121-16	262510	1.000
Design 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 maximum surface temperature	100 °C					
Ambient temperature	-30 °C ... +70 °C					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Blue	With diffuser	27 lm/W	338 lm	6036/1212-055-0121-17	263763	1.000
Green	With diffuser	53 lm/W	671 lm	6036/1212-055-0121-14	262541	1.000
Neutral white	With diffuser	104 lm/W	1396 lm	6036/1212-455-0121-11	274268	1.000
Red	With diffuser	45 lm/W	475 lm	6036/1212-055-0121-16	262542	1.000

Selection Table						
Design size	1					
Cable length	2.5 m					
Rated operational voltage DC	12 V					
Gas temperature class	T4					
Dust maximum surface temperature	100 °C					
Ambient temperature	-40 °C ... +40 °C					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Neutral white	With diffuser	104 lm/W	1396 lm	6036/1212-452-0121-11	274365	1.000
Design 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 maximum surface temperature	100 °C					
Ambient temperature	-50 °C ... +60 °C (Energise above -40 °C)					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Neutral white	With diffuser	112 lm/W	2847 lm	6036/1225-450-0151-11	274207 ▲	1.730
	Cylinder optics 20°x160°	111 lm/W	2834 lm	6036/1225-450-0151-31	272547	1.800
	Batwing lense	109 lm/W	2768 lm	6036/1225-450-0151-41	272550	1.900
Design 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 maximum surface temperature	100 °C					
Ambient temperature	-55 °C ... +60 °C (Energise above -40 °C)					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Neutral white	With diffuser	116 lm/W	4266 lm	6036/1235-450-0151-11	274227 ▲	2.090
	Cylinder optics 20°x160°	115 lm/W	4246 lm	6036/1235-450-0151-31	272548	2.100
	Batwing lense	113 lm/W	4147 lm	6036/1235-450-0151-41	272551	2.200
Design 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 maximum surface temperature	100 °C					
Ambient temperature	-55 °C ... +60 °C (Energise above -40 °C)					
Light colour	Diffuser	Luminaire efficacy	Luminous flux	Product Type	Art. No.	Weight kg
Monochromatic yellow	With diffuser	37 lm/W	1543 lm	6036/1248-050-0151-18	267771	2.350
Neutral white	With diffuser	116 lm/W	5575 lm	6036/1248-450-0151-11	274247 ▲	2.440
	Cylinder optics 20°x160°	116 lm/W	5549 lm	6036/1248-450-0151-31	272549	2.500
	Batwing lense	112 lm/W	5419 lm	6036/1248-450-0151-41	272552	2.700
Yellow phosphorus converted	With diffuser	55 lm/W	3003 lm	6036/1248-050-0151-15	259934	2.440

Technical Data				
Variant	Design size 1	Design size 2	Design size 3	Design 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
EAC gas explosion protection	⊕ 1 Ex d op is IIC T4 Gb	⊕ 1 Ex d op is IIC T4 Gb	⊕ 1 Ex d op is IIC T4 Gb	⊕ 1 Ex d op is IIC T4 Gb
EAC dust explosion protection	⊕ Ex tb IIIC T100°C Db	⊕ Ex tb IIIC T100°C Db	⊕ Ex tb IIIC T100°C Db	⊕ Ex tb IIIC T100°C Db

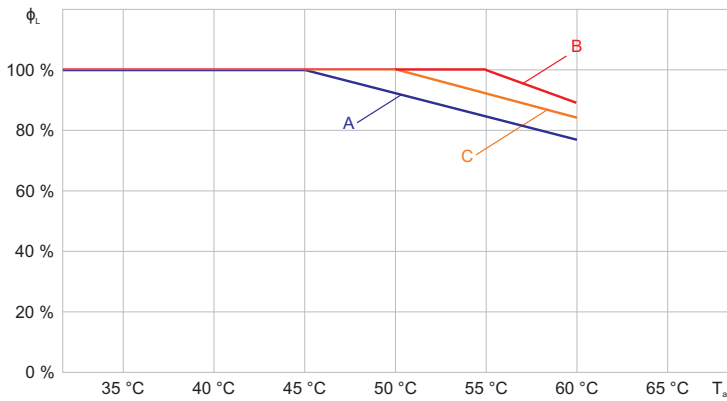
Technical Data				
Variant	Design size 1	Design size 2	Design size 3	Design size 4
<b>Explosion Protection</b>				
Certificates	ATEX (BVIS), Brazil (ULB), China (NEPSI), EAC (ENDCE), IECEX (BVIS), India (PESO)	ATEX (BVIS), Brazil (ULB), China (NEPSI), EAC (ENDCE), IECEX (BVIS), India (PESO), Korea (KTL)	ATEX (BVIS), Brazil (ULB), China (NEPSI), EAC (ENDCE), IECEX (BVIS), India (PESO)	ATEX (BVIS), Brazil (ULB), China (NEPSI), EAC (ENDCE), IECEX (BVIS), India (PESO)
Ship approval		DNVGL	DNVGL	DNVGL
Notes	For temperature classes and surface temperatures, see selection table			
<b>Electrical Data</b>				
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
<b>Ambient Conditions</b>				
Storage temperature	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C	-40 °C ... +70 °C
<b>Lighting Data</b>				
Lamp wattage	13 W	28 W	37 W	48 W
Light colour	Neutral white	Neutral white	Neutral white	Neutral white
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
Notes	warm white: 4000 K neutral white: 5000 K cold white: 6500 K			
<b>Mechanical Data</b>				
Degree of protection (IP)	IP66 / IP67	IP66 / IP67	IP66 / IP67	IP66 / IP67
Degree of protection IP (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)
Protection 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
Type of connection cable	H07RN-F 2x1.5 mm <sup>2</sup>	H07RN-F 2x1.5 mm <sup>2</sup>	H07RN-F 2x1.5 mm <sup>2</sup>	H07RN-F 2x1.5 mm <sup>2</sup>
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



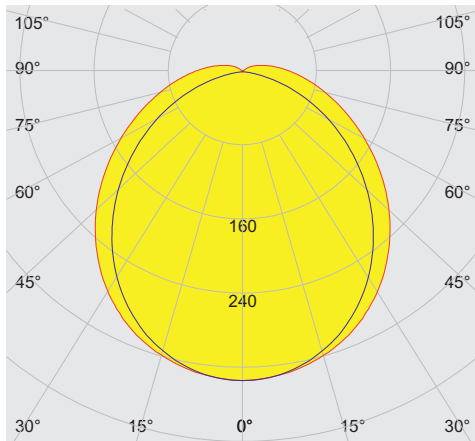
Luminous flux decrease at ambient temperature A: Size 1 (110 ... 240 V) B: Size 1 (24 ... 48 V)

E2

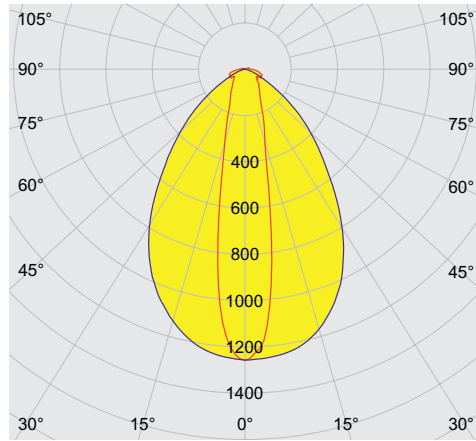


Luminous flux decrease at ambient temperature A:  
Size 2 B: Size 3 C: Size 4

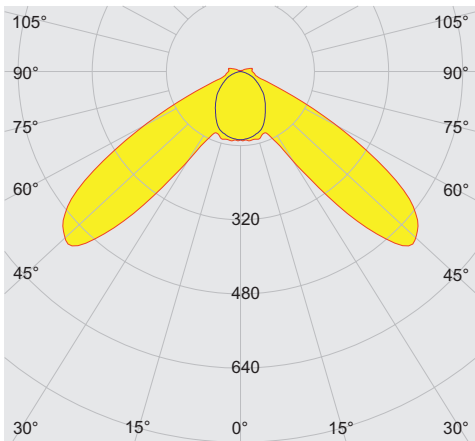
**Light Distribution Curves – Subject to Alterations**



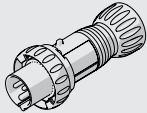
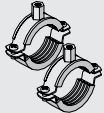
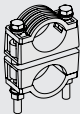
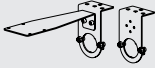
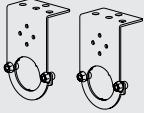



cd/klm 100%  
— C0 - C180 — C90 - C270  
with diffuser

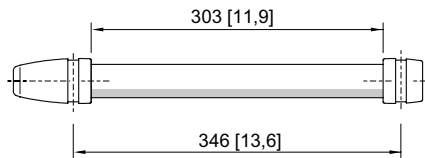
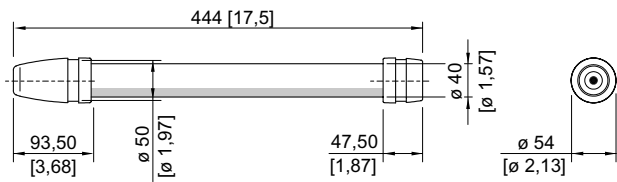


cd/klm 100%  
— C0 - C180 — C90 - C270  
cylinder optics 20°x160°

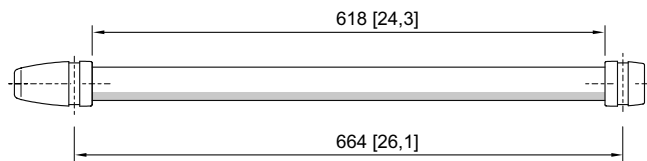
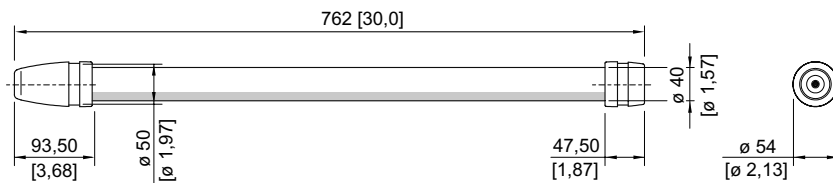


cd/klm 100%  
— C0 - C180 — C90 - C270  
batwing lense

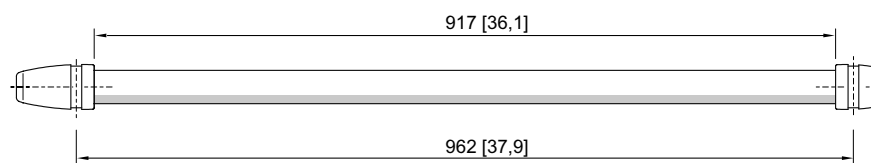
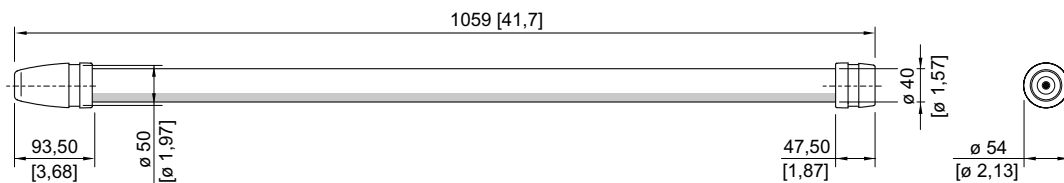
Accessories			
Figure	Description	Art. No.	Weight kg
<b>Plug</b>			
	8573/12-200 2 pins, 20 ... 25 V, 50 / 60 Hz, 16 A	243197 ▲	0.300
	8573/12-210 2 pins, 20 ... 25 V, DC, 16 A	243203 ▲	0.300
	8573/12-300 3 pins, 20 ... 25 V, 50 / 60 Hz, 16 A	243190 ▲	0.300
	8573/12-312 3 pins, 40 ... 50 V, 50 / 60 Hz, 16 A	243195	0.300
	8570/12-304 3 pins, 100 ... 130 V AC, 50 / 60 Hz, 16 A	257778 ▲	0.331
	8570/12-306 3 pins, 200 ... 250 V AC, 50 / 60 Hz, 16 A	257780 ▲	0.331
<b>Mounting bracket</b>			
	Mounting bracket made of galvanised sheet steel to screw onto thread M8 or M10 (2 pieces)	227256	0.190
	Mounting bracket made of stainless steel V4A to screw onto thread M8 or M10 (2 pieces)	227257	0.180
	Double mounting bracket made of plastic for mounting of pipes with a diameter of 45 ... 55 mm (Screws and nuts made of stainless steel V2A) (2 pieces)	254932	0.800
	Set of mounting plate Art. no. 254494 and mounting bracket Art. no. 252940	248100	0.850
	Mounting bracket made of stainless steel V4A for fastening on surfaces (2 pieces)	252940	0.600
	Mounting bracket made from galvanised sheet steel (x 2 units); for design size 1	120535 ▲	0.048
	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	0.700
<b>Mounting bracket and magnet</b>			
	Mounting bracket made from galvanised sheet steel with magnetic base (x 2 units); for design size 1	120536 ▲	0.100



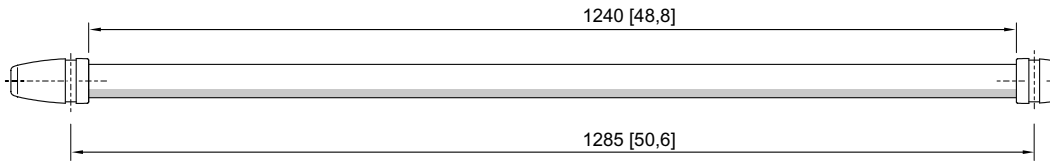
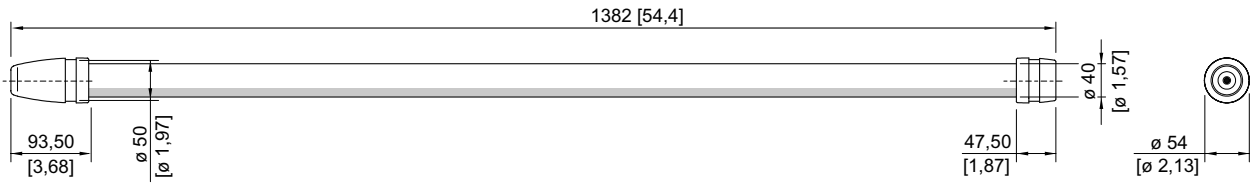
Design size 1



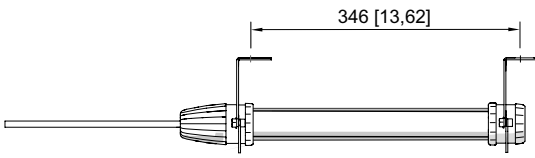
Design size 2



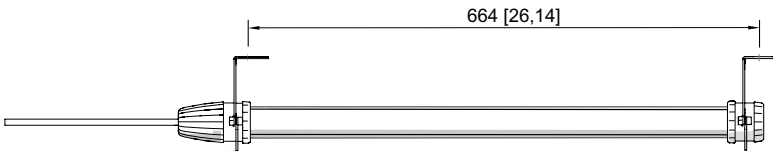
Design size 3



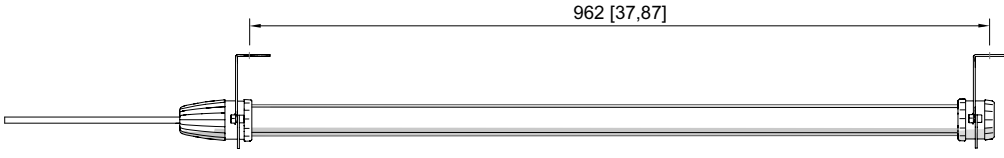
Design size 4



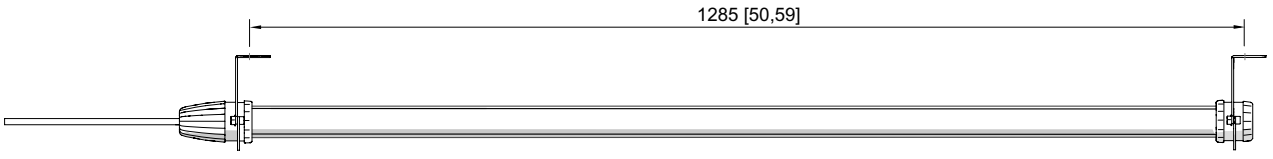
Luminaire with mounting bracket for a surface



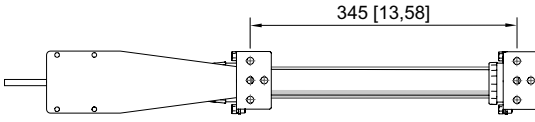
Luminaire with mounting bracket for a surface



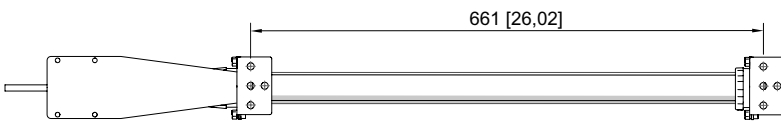
Luminaire with mounting bracket for a surface



Luminaire with mounting bracket for a surface

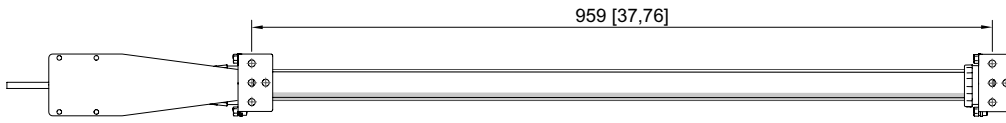


Luminaire with mounting bracket for a surface and mounting plate

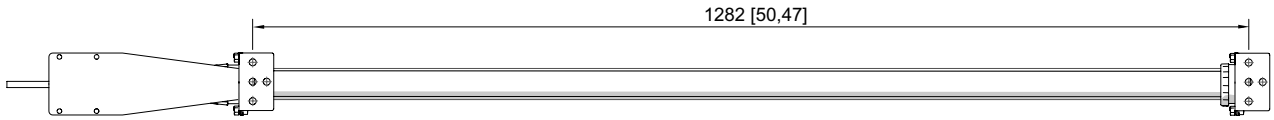


Luminaire with mounting bracket for a surface and mounting plate

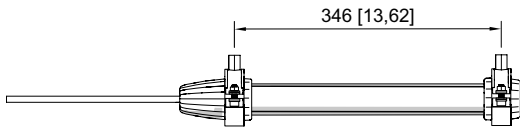
E2



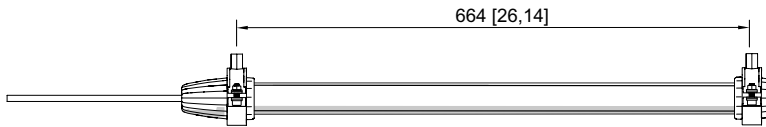
Luminaire with mounting bracket for a surface and mounting plate



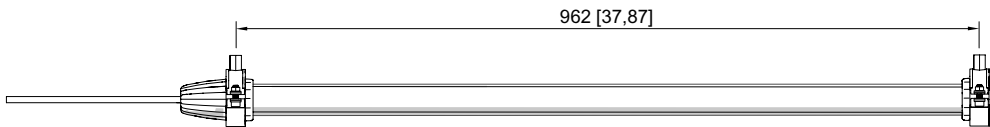
Luminaire with mounting bracket for a surface and mounting plate



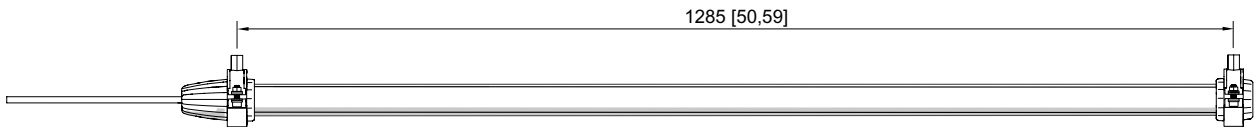
Luminaire with mounting bracket for a thread



Luminaire with mounting bracket for a thread

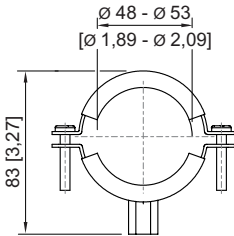
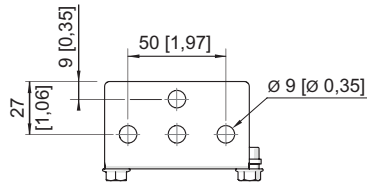
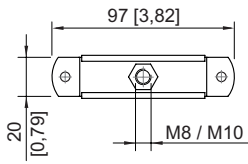


Luminaire with mounting bracket for a thread

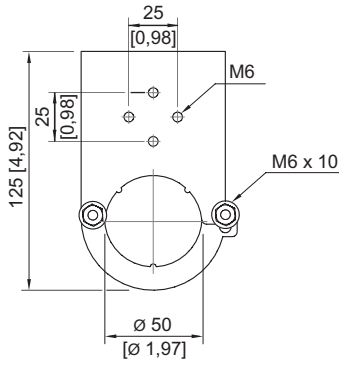
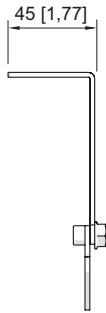


Luminaire with mounting bracket for a thread

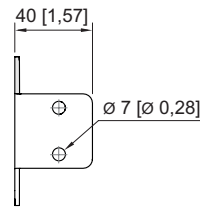
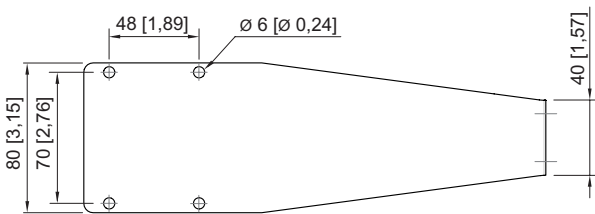




Mounting bracket for a thread



Mounting bracket for surfaces



Mounting plate

