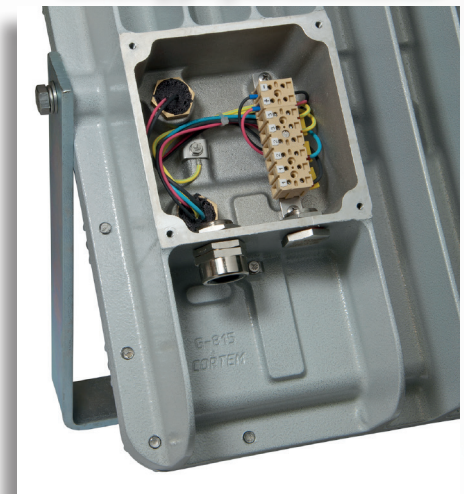
SLED-ME

- Zone 1, 2, 21, 22
- Mechanical strength
- Reliability over time
- Instant, bright illumination
- IK11

Ex e terminal board housing for fast connection



CORTEM GROUP®

SLED-ME series LED floodlights " square shaped beam"

SLED-ME series floodlights with LED technology combine lightweight, compact design, high performance in terms of reliability, safety, efficiency and energy saving. The finned body of the floodlight acts as a heat sink for the LED plate, allowing the installation of greater light output without incurring the deterioration of the LEDs. The flat protective glass is resistant to shocks and high temperatures and ensures an environment friendly lighting. Due to their high luminous output and to a white light with a colour rendering index greater than 70, SLED-ME series floodlights are able to replace the traditional rectangular floodlights that use discharge lamps sodium vapour or metal halide, guaranteeing lighting quality and visual comfort.

Application sectors:

Oil refineries | Chemical and petrochemical plants | Anti light pollution | Offshore plants | Onshore plants | Perimeter lighting | Oil loading/ unloading jetties | 100% Cortem product

CERTIFICATION DATA

Classification:	Group II	Category 2GD		
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 2GD - Ex db eb IIB+H_2 T... Gb - Ex tb IIIC T...°C Db - IP66			
Certification:	ATEX CML 19 ATEX 1312			
	IECEx IECEx CML 17.0004	All IEC Ex, UKEX and INMETRO certification data can be downloaded at www.cortemgroup.com		
	UKEX AVAILABLE			
	INMETRO DNV 19.0034 X For SLED-250, SLED-400, SLED-600, SLED-1000			
Standards:	CENELEC EN 60079-0: 2018, EN 60079-1: 2014, EN 60079-7: 2015, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2017, IEC 60079-1: 2014-06, IEC 60079-31: 2013, IEC 60079-7: 2015 European Directive 2004/108 Electromagnetic compatibility European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE European Directive 2011/65/UE RoHS			
Degree of protection:	IP66			

Ambient temperature, class. temperature, max. surface temperature:

Old code	Code	(IIB+H_2)		(only for IIB)	
SLED-250	SLED-ME-250120	-20°C +40°C T6/85°C	-20°C +60°C T5/100°C	-40°C +40°C T6/85°C	-40°C +60°C T5/100°C
SLED-401	SLED-ME-250180	-20°C +40°C T5/98°C	-	-40°C +40°C T5/99°C	-
SLED-400	SLED-ME-400200	-20°C +40°C T6/85°C	-20°C +60°C T5/100°C	-40°C +40°C T6/85°C	-40°C +60°C T5/100°C
SLED-601	SLED-ME-400300	-20°C +40°C T5/90°C	-20°C +50°C T5/100°C	-40°C +40°C T5/90°C	-40°C +50°C T5/100°C
SLED-600	SLED-ME-600300	-20°C +40°C T6/85°C	-20°C +60°C T5/100°C	-40°C +40°C T6/85°C	-40°C +60°C T5/100°C
SLED-1000	SLED-ME-600400	-20°C +40°C T5/93°C	-20°C +50°C T4/103°C	-40°C +40°C T5/93°C	-40°C +50°C T4/103°C
SLED-1001	SLED-ME-600500	-20°C +40°C T6/85°C	-20°C +55°C T5/100°C	-40°C +40°C T6/85°C	-40°C +55°C T5/100°C

SLED-ME series LED floodlights " square shaped beam"

SLED-ME-250180

SLED-ME-400300

SLED-ME-600400 ...600500

For more information on electrical connectors

EXEMPT FROM PHOTOBIOLOGICAL RISK (STANDARD IEC / EN 62471)

ORIGINAL PRODUCT

MECHANICAL FEATURES

Body: Low copper content aluminium alloy fitted with cooling fins for better heat dissipation
Glass face: Shock and temperature resistant tempered glass sealed with aluminium ring
Supporting bracket: Galvanised steel
Gaskets: Acid, hydrocarbon and high temperature resistant silicone
Bolts and screws: Stainless steel
Entries: 2 x ISO M20 entries (SLED-ME-250120, SLED-ME-250180);
(Floodlight kit with plug PLG1IB and cable gland NAVS20IB)
ISO M25 entries (SLED-ME-400200, SLED-ME-400300, SLED-ME-600300, SLED-ME-600400, SLED-ME-600500)
(Floodlight kit with plug PLG2IB and cable gland NAV25IB)
Coating: Polyester coating Ral 7035 (Light grey)

Corrosion Resistance: The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)

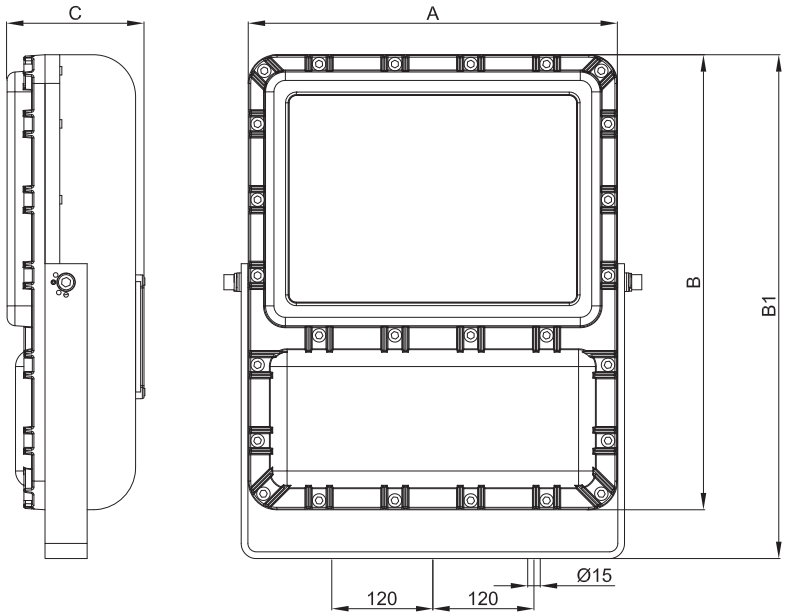
ACCESSORIES AVAILABLE / SPECIAL REQUESTS

Different colour temperature (code SLED-ME-250120**/2700K**)

SLED-ME series LED floodlights " square shaped beam"

	Code	Dimensions mm A	B	B1	C	Watt	Class / Max surface temp. °C TA=+40°C	TA=+50°C	TA=+55°C	TA=+60°C	Weight kg	mm
Zona 1, 2, 21, 22	SLED-ME-250120	310	360	460	135	122 W	T6/85°C	-	-	T5/100°C	13,5	470x345x150
	SLED-ME-250180	310	360	460	135	180 W	T5/98°C	-	-	-	13,5	470x345x150
	SLED-ME-400200	360	444	520	145	186 W	T6/85°C	-	-	T5/100°C	20,3	540x410x180
	SLED-ME-400300	360	444	520	145	290 W	T5/90°C	T5/100°C	-	-	20,3	540x410x180
	SLED-ME-600300	440	540	600	165	290 W	T6/85°C	-	-	T5/100°C	32,4	600x465x180
	SLED-ME-600400	440	540	600	165	400 W	T5/93°C	T4/103°C	-	-	32,4	600x465x180
	SLED-ME-600500	440	540	600	165	500 W	T6/85°C	T5/95°C	T5/T100°C	-	32,4	600x465x180

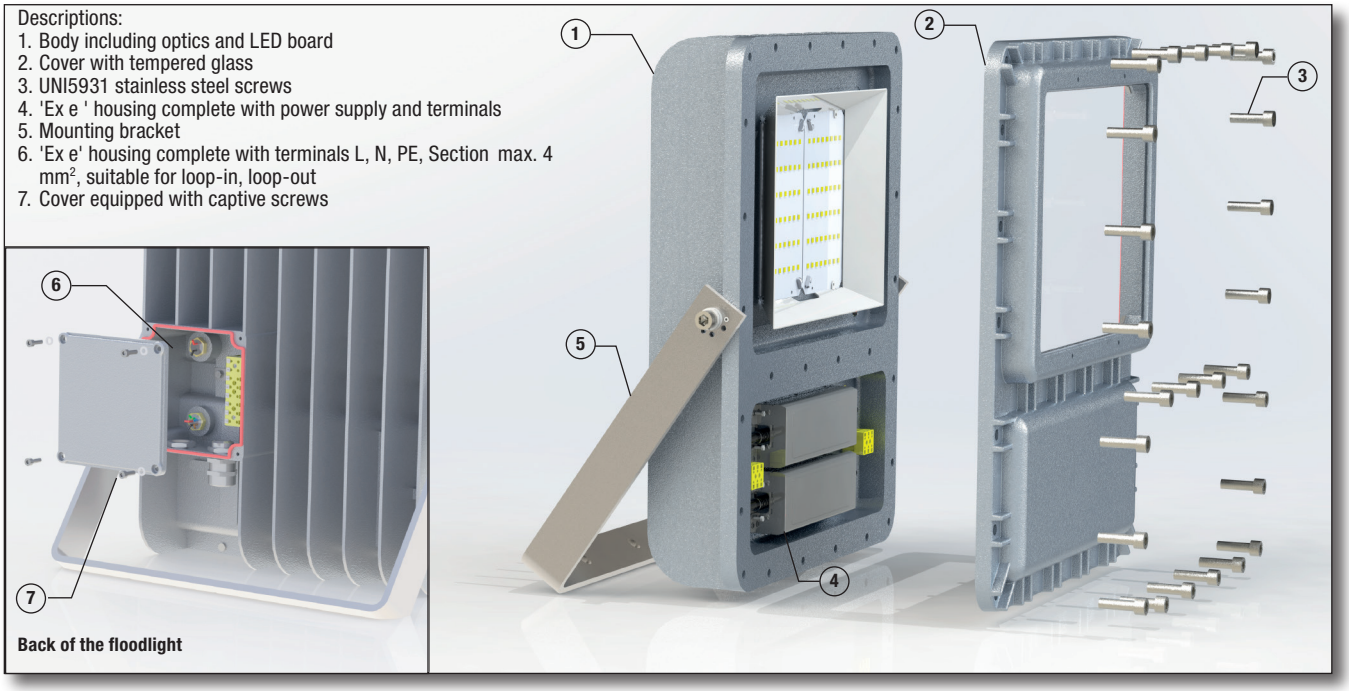
DIMENSIONAL DRAWING



Dimensions in mm

EXPLODED DIAGRAM OF SLED-ME-600300 FLOODLIGHT

Descriptions:
1. Body including optics and LED board
2. Cover with tempered glass
3. UNI5931 stainless steel screws
4. 'Ex e ' housing complete with power supply and terminals
5. Mounting bracket
6. 'Ex e' housing complete with terminals L, N, PE, Section max. 4 mm², suitable for loop-in, loop-out
7. Cover equipped with captive screws

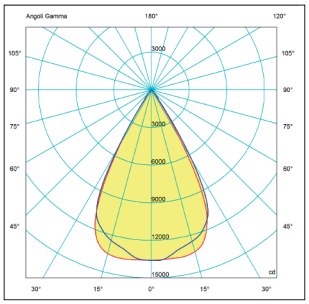


Back of the floodlight

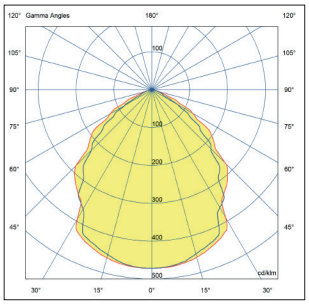
SLED-ME series LED floodlights " square shaped beam"

Electrical features	SLED-ME-250120	SLED-ME-250180	SLED-ME-400200
Power supply:	100-277 Vac ±10%	110-277 Vac ±10%	110-277 Vac ±10%
Rated frequency:	50-60 Hz ±5%	50-60 Hz ±5%	50-60 Hz ±5%
Power consumption*:	122 W	171 W	186 W
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm^2, suitable for loop-in/loop-out		
Power factor*:	>0,95	>0,95	>0,95
Rated current*:	559 mA	760 mA	820 mA
EMC (electromagnetic compatibility):	EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-...		
THD (total harmonic distortion):	<10%	<10%	<10%
Over-voltage protection:	2 kV	6-10 kV	4 kV
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection		
Dimmer (on request):	(0-10 V) o PWM	(0-10 V) o PWM	(0-10 V)
Photometric features			
LED:	Cree	Cree	Cree
Viewing angle::	60°	120°	120°
Type:	Cool White	Cool White	Cool White
Colour temperature:	~ 5700 K	~ 5000 K	~ 5000 K
CRI**:	>70	>70	>70
Instant Restrike:	YES	YES	YES
L90:	> 72600 h	109000 h	109000 h
Lumen:	**12387 lm**	**19340 lm**	**22181 lm**
Maximum light intensity:	**5206 cd**	**9128 cd**	**9705 cd**
Overall efficiency:	**101 lm/W**	**113 lm/W**	**119 lm/W**

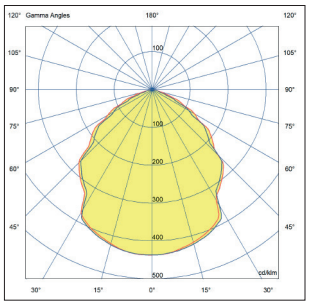
** Test at 230Vac*
*** Different CRI on request*



SLED-ME-250120
Luminous flux: 12387 lm



SLED-ME-250180
Luminous flux: 19340 lm



SLED-ME-400200
Luminous flux: 22181 lm

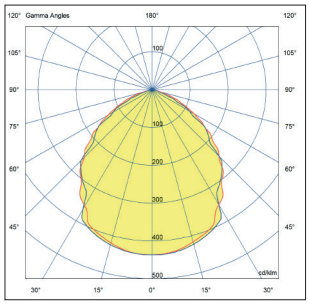
On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

= plane 90270
= plane 0180

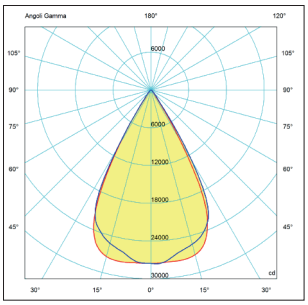
SLED-ME series LED floodlights " square shaped beam"

Electrical features	SLED-ME-400300	SLED-ME-600300	SLED-ME-600400	SLED-ME-600500
Power supply:	100-277 Vac ±10%	120-277 Vac ±10%	110-277 Vac ±10%	110-277 Vac ±10%
Rated frequency:	50-60 Hz ±5%	50-60 Hz ±5%	50-60 Hz ±5%	50-60 Hz ±5%
Power consumption*:	290 W	290 W	400 W	500 W
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm^2, suitable for loop-in/loop-out			
Power factor*:	>0,95	>0,97	>0,95	>0,95
Rated current*:	1290 mA	1303 mA	1760 mA	2150 mA
EMC (electromagnetic compatibility):	EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-...			
THD (total harmonic distortion):	<10%	<10%	<10%	<10%
Over-voltage protection:	6 kV	4 kV	4-6 kV	4-6 kV
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection			
Dimmer (on request):	(0-10 V) / PWM	(0-10 V)	(0-10 V) / PWM	(0-10 V) / PWM
Photometric features				
LED:	Cree	Cree	Cree	Cree
Viewing angle::	120°	60°	120°	120°
Type:	Cool White	Cool White	Cool White	Cool White
Colour temperature:	~ 5000 K	~ 5700 K	~ 5000 K	~ 5000 K
CRI**:	>70	>70	>70	>70
Instant Restrike:	YES	YES	YES	YES
L90:	109000 h	> 72600 h	109000 h	109000
Lumen:	**36418 lm**	**30799 lm**	**52368 lm**	**60658 lm**
Maximum light intensity:	**15912 cd**	**33976 cd**	**20577 cd**	**23922 cd**
Overall efficiency:	**125 lm/W**	**106 lm/W**	**131 lm/W**	**123 lm/W**

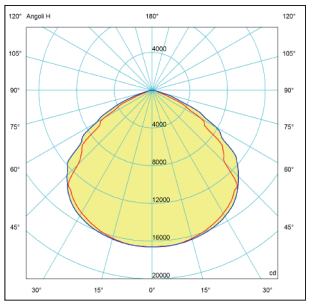
** Test at 230Vac*
*** Different CRI on request*



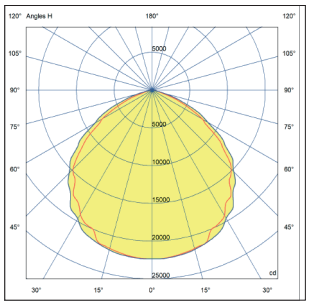
SLED-ME-400300
Luminous flux: 36418 lm



SLED-ME-600300
Luminous flux: 30799 lm



SLED-ME-600400
Luminous flux: 52368 lm

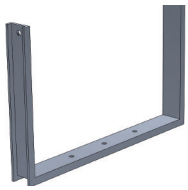
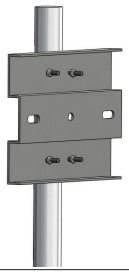
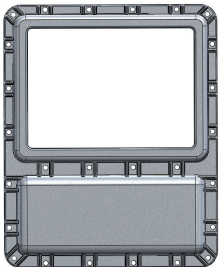
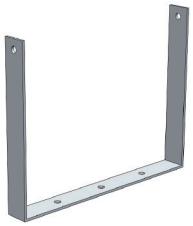
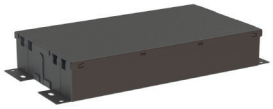


SLED-ME-600500
Luminous flux: 60658 lm

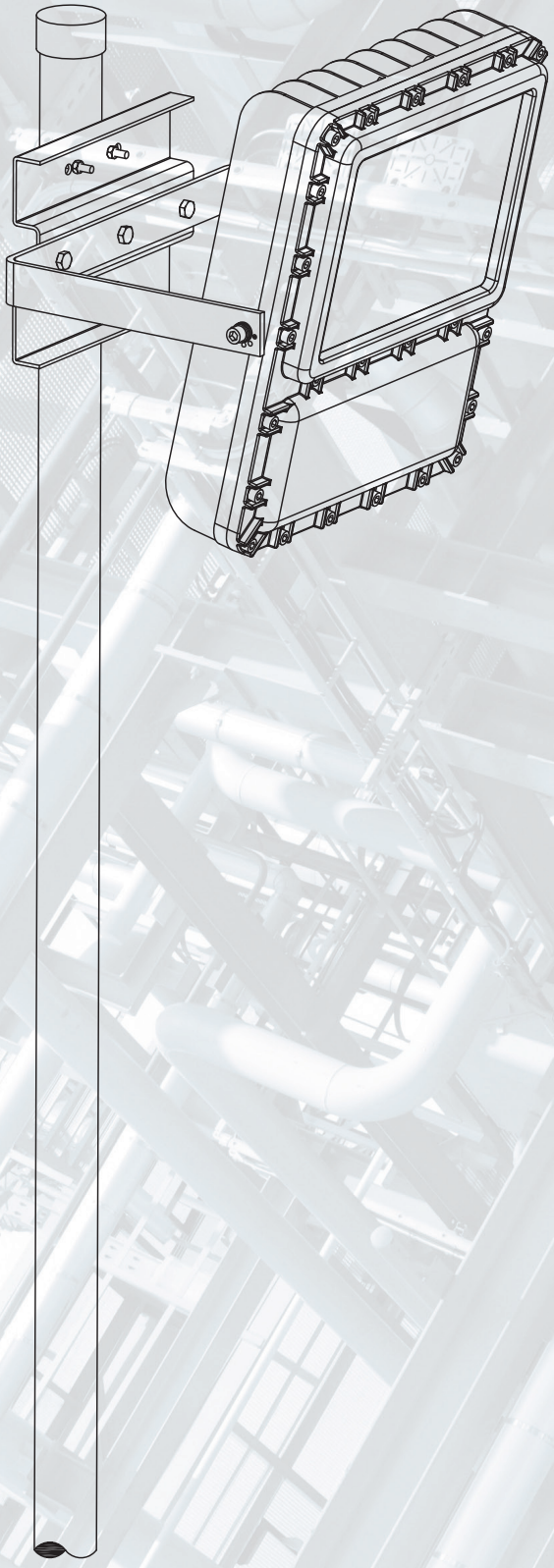
On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

= plane 90270
= plane 0180

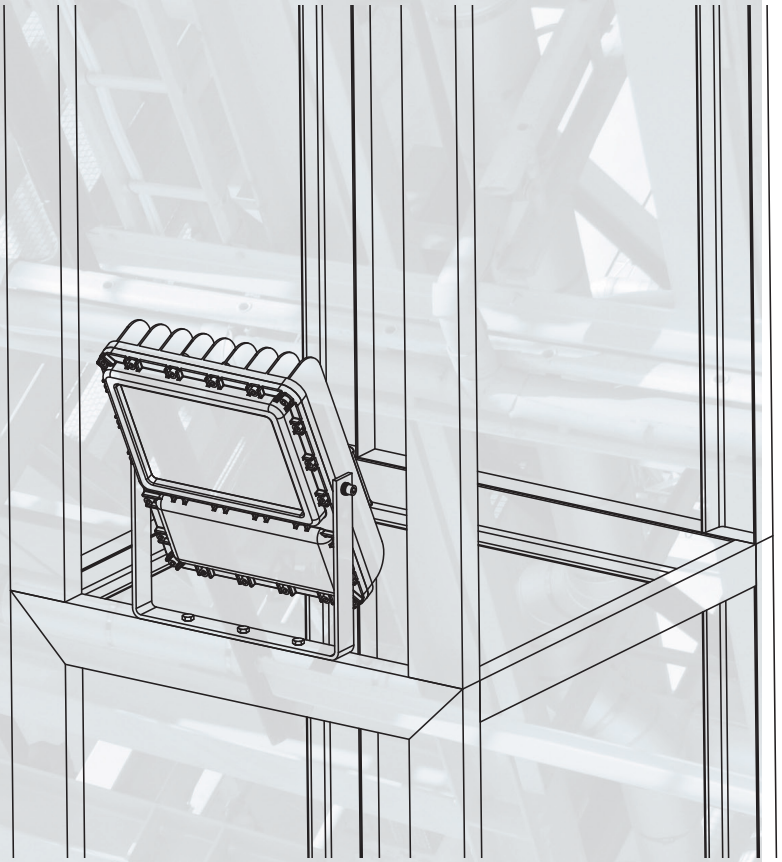
SLED-ME series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Reinforced supporting bracket for mounting on movement facilities	SLED-ME-600...	Material: galvanised steel	**G-558/1**	ACCESSORY SPARE PART
	Frame for pole mounting	For all models	Material: galvanised steel	**G-0534**	ACCESSORY SPARE PART
	Swivel base for 360° adjustment	SLED-ME-400... SLED-ME-600...	Material: aluminum RAL 7035 painted	**G-326** **+** **G-327**	ACCESSORY SPARE PART
	Cable gland for nonarmored cables	SLED-ME-250...	std. range cable 6,3÷11,6	**NAV20SIB**	ACCESSORY SPARE PART
		SLED-ME-400... SLED-ME-600...	std. range cable 11÷20	**NAV25IB**	
	Front ring with glass	SLED-ME-250...	Low copper content aluminium alloy with tempered glass	**G250-0622**	SPARE PART
		SLED-ME-400...		**G400-0622**	
		SLED-ME-600...		**G-0622**	
	Supporting bracket	SLED-ME-250...	Material: galvanised steel	**G-901**	SPARE PART
		SLED-ME-400...		**G-896**	
		SLED-ME-600...		**G-558**	
	Electonic driver	SLED-ME-250120	100-277 Vac	**LEDDEVL100**	RECAMBIO
		SLED-ME-400200	110-277 Vac	**LEDDEVL100/1/1**	
		SLED-ME-600300	120-277 Vac	**LEDDSLED600**	
		SLED-ME-250180	110-277 Vac	**LEDDEVL100/1/9**	
		SLED-ME-400300	100-277 Vac	**LEDDSLED601/1-990MA**	
		SLED-ME-600400	110-277 Vac	**LEDDEVL100/1/12 (X2)**	
		SLED-ME-600500	110-277 Vac	**LEDDEVL100/1/2 (X2)**	

Example of pole mounting



Example of vertical mounting on structure



Example of horizontal mounting on structure