

SLED-MN

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

*Painted aluminium
body and cover*

Cooling fins

Tempered glass



Mounting bracket

*Ex e terminal board
housing for fast connection*



SLED-MN series LED floodlights

The SLED-MN series LED floodlights are designed with the 'Ex nR' and 'Ex tb' protection method to be installed in ATEX classified areas "Zone 2" and "Zone 21", where the equipment must guarantee a level of normal protection in the presence of mixtures of gases, vapors, and mists (Zone 2), and a high level of protection against dust and combustible particles (Zone 21). SLED-MN series floodlights are equipped with LED light sources that allow for a diffused light beam and an exceptional Lumen Output. The finned body acts as a heat dissipator for the LED plate and allows greater circulation of the air and water present in the surrounding environment, thus minimizing the deposit of combustible dust.

Application sectors:



CERTIFICATION DATA

Classification:	Group II	Category 3GD/2D		
Installation: EN 60079.14	zone 2 (Gas)	zone 21 - zone 22 (Dust)		
Marking:	CE 0722 Ex II 3GD - Ex nR IIC T... Gc - Ex tc IIIC T... °C Dc - IP66			
	CE Ex II 2D - Ex tb IIIC T... °C Db - IP 66			
Certification:	ATEX ATEX	CML 19 ATEX 1312 CML 23 ATEX 4028X		
	IECEX	IECEX CML 17.0004	All IEC Ex, UKEX certification data can be downloaded at www.cortemgroup.com	
	UKEX	AVAILABLE		
Standards:	CENELEC EN 60079-0: 2018, EN 60079-15: 2019, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE IEC 60079-0: 2017, IEC 60079-15: 2010, IEC 60079-31: 2013 European Directive 2004/108 Electromagnetic compatibility European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE European Directive 2011/65/UE RoHS			
Ambient temperature:	 -60°C +60°C 		For all permitted ambient temperature ranges, please see the "Selection tables"	
Degree of protection:	IP66			

SLED-MN series LED floodlights



EXEMPT FROM
PHOTOBIOLOGICAL RISK
(STANDARD IEC / EN 62471)



ORIGINAL PRODUCT



For more information on electrical
connectors



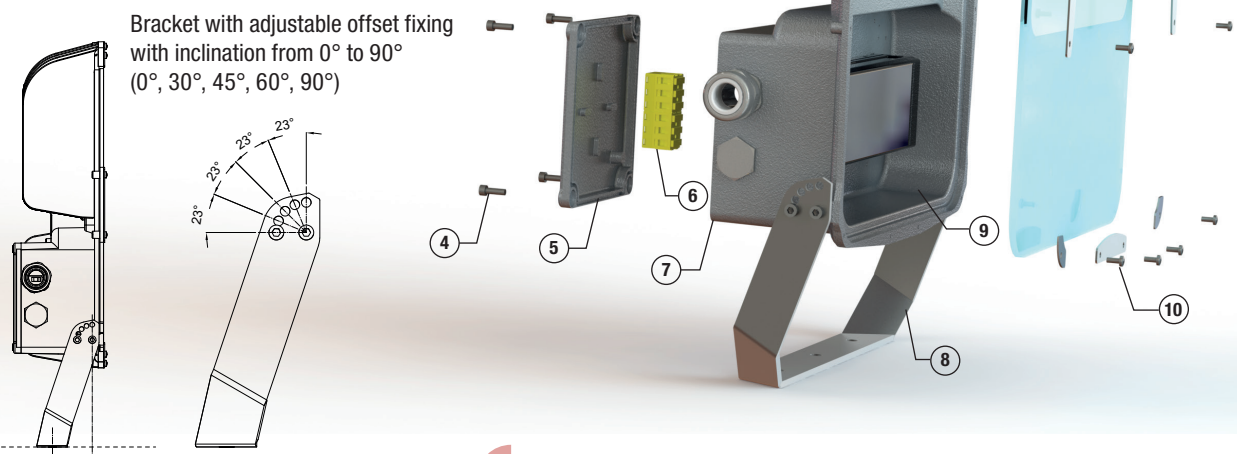
MECHANICAL FEATURES

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:	SLED-400....: 2 x ISO M20 entries. (Floodlight kit with plug PLG1IB and cable gland NAV20IB) SLED-600....: 2 x ISO M25 entries. (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)

EXPLODED DIAGRAM OF SLED-MN-600300 FLOODLIGHT

Descriptions:

1. Painted body
2. Tempered glass
3. LED board
4. Stainless steel screws
5. Cover for "Ex e" housing
6. Terminals L, N, PE, Section max. 4 mm², suitable for loop-in, loop-out
7. 'Ex e' housing complete with connection terminals
8. Mounting bracket
9. 'Ex nR' housing complete with power supply
10. Brackets and screws in stainless steel for glass locking

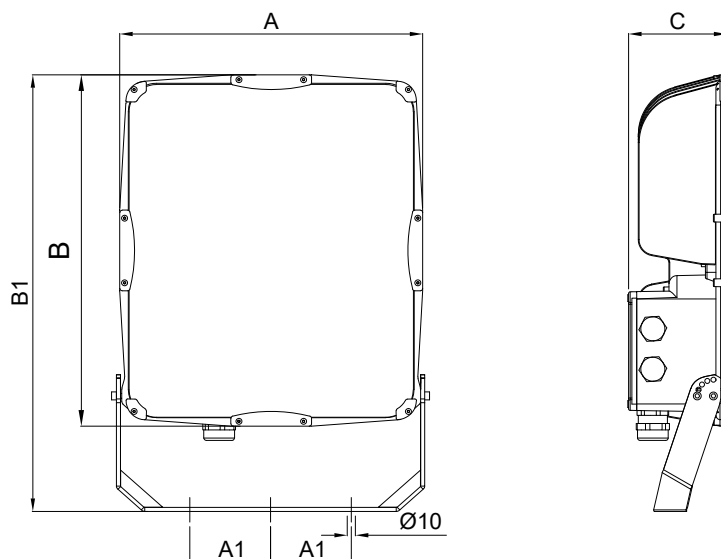


SLED-MN series LED floodlights

Code	Dimensions mm					Watt	Class / Max surface temp. °C				Weight kg	mm
	A	B	B1	C	A1		TA=+40°C	TA=+50°C	TA=+55°C	TA=+60°C		
SLED-MN-400100	315	304	395	121	70	104 W	T6/81	T5/91	T5/96	T4/101	7	420x355x145
SLED-MN-400150	315	304	395	121	70	155 W	T5/85	T5/95	T4/100	T4/105	7,8	420x355x145
SLED-MN-400200	315	304	395	121	70	190 W	T5/85	T5/95	T4/100	T4/105	7,8	420x355x145
SLED-MN-600300	375	435	540	121	100	290 W	T5/83	T5/93	T4/98	T4/103	13,6	565x425x167
SLED-MN-600400	375	435	540	121	100	394 W	T5/91	T4/101	T4/110	T4/111	13,6	565x425x167
SLED-MN-600500	375	435	540	121	100	485 W	T5/95	T4/105	T4/110	T4/115	15,6	565x425x167

Zona 2, 21, 22

DIMENSIONAL DRAWING



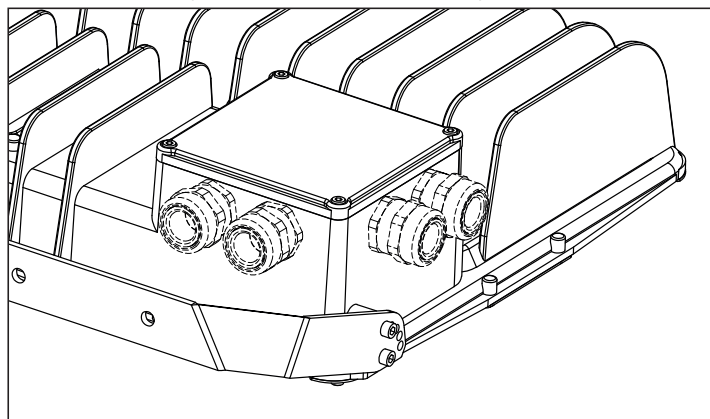
Dimensions in mm

ACCESSORIES AVAILABLE / SPECIAL REQUESTS

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

Additional cable gland model NAV25SIB for unarmoured cable

Drilling for different standard cable gland entries



Standard drilling

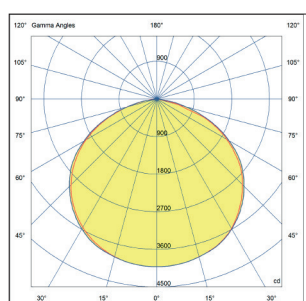


SLED-MN series LED floodlights

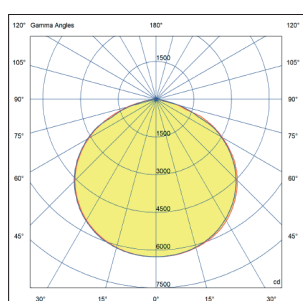
Electrical features	SLED-MN-400100	SLED-MN-400150	SLED-MN-400200
Power supply:	110-277 Vac $\pm 10\%$	110-277 Vac $\pm 10\%$	110-277 Vac $\pm 10\%$
Rated frequency:	50-60 Hz $\pm 5\%$	50-60 Hz $\pm 5\%$	50-60 Hz $\pm 5\%$
Power consumption*:	104 W	155 W	190 W
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm ² , suitable for loop-in/loop-out		
Power factor*:	>0,95	>0,95	>0,95
Rated current*:	460 mA	690 mA	840 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:	4-6 kV	4-6 kV	4-6 kV
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection		
Dimmer (on request):	(0-10 V) or PWM	(0-10 V) or PWM	(0-10 V) or PWM
Photometric features			
LED:	Cree	Cree	Cree
Viewing angle:	120°	120°	120°
Type:	Cool White	Cool White	Cool White
Colour temperature:	~ 5000 K	~ 5000 K	~ 5000 K
CRI**:	>70	>70	>70
Instant Restrike:	SI	SI	SI
L90:	109000 h	109000 h	109000 h
Lumen:	13640 lm	20353 lm	24848 lm
Maximum light intensity:	4834 cd	7208 cd	8955 cd
Overall efficiency:	131 lm/W	131 lm/W	130 lm/W

* Test at 230Vac

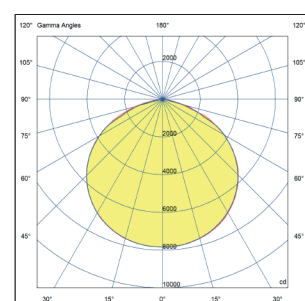
** Different CRI on request



SLED-MN-400100
Luminous flux: 13640 lm



SLED-MN-400150
Luminous flux: 20353 lm



SLED-MN-400200
Luminous flux: 24848 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.

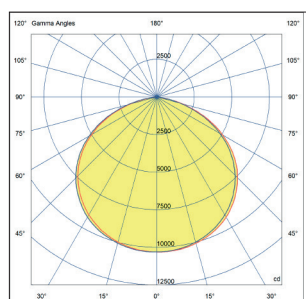
— = plane 90270
— = plane 0180

SLED-MN series LED floodlights

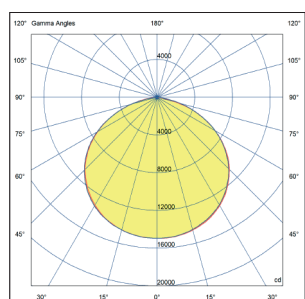
Electrical features	SLED-MN-600300	SLED-MN-600400	SLED-MN-600500
Power supply:	100-277 Vac $\pm 10\%$	110-277 Vac $\pm 10\%$	110-277 Vac $\pm 10\%$
Rated frequency:	50-60 Hz $\pm 5\%$	50-60 Hz $\pm 5\%$	50-60 Hz $\pm 5\%$
Power consumption*:	290 W	394 W	485 W
Connection:	Direct connection to terminal board L, N, Pe. Section 4mm ² , suitable for loop-in/loop-out		
Power factor*:	>0,95	>0,95	>0,95
Rated current*:	1300 mA	1740 mA	2130 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:	6 kV	4-6 kV	4-6 kV
Driver performances:	Over-Voltage protection, Over-Current protection, Short-Circuit protection		
Dimmer (on request):	(0-10 V) or PWM	(0-10 V) or PWM	(0-10 V) or PWM
Photometric features			
LED:	Cree	Cree	Cree
Viewing angle:	120°	120°	120°
Type:	Cool White	Cool White	Cool White
Colour temperature:	~ 5000 K	~ 5000 K	~ 5000 K
CRI**:	>70	>70	>70
Instant Restrike:	SI	SI	SI
L90:	109000 h	109000 h	109000 h
Lumen:	44807 lm	56323 lm	64751 lm
Maximum light intensity:	15858 cd	19954 cd	22936 cd
Overall efficiency:	154 lm/W	143 lm/W	133 lm/W

* Test at 230Vac

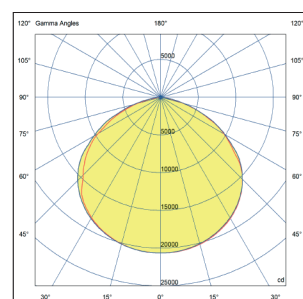
** Different CRI on request



SLED-MN-600300
Luminous flux: 44807 lm



SLED-MN-600400
Luminous flux: 56323 lm

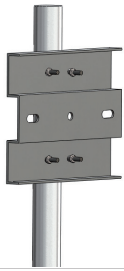
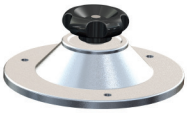
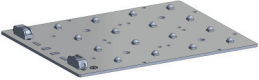
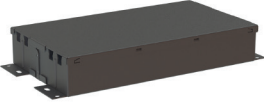


SLED-MN-600500
Luminous flux: 64751 lm

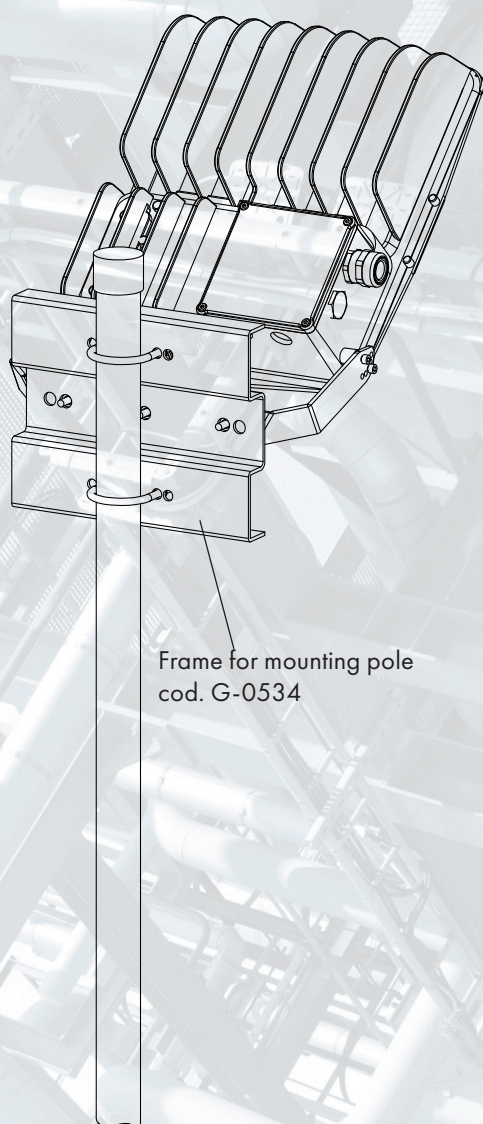
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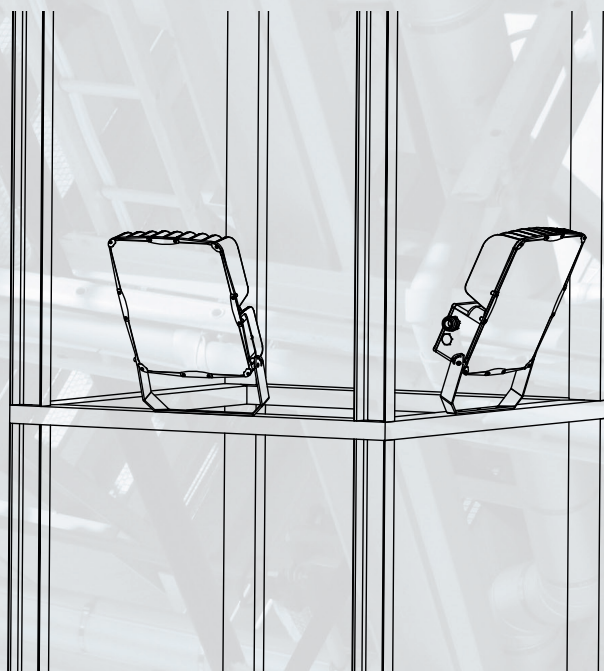
SLED-MN series Accessories and spare parts available on request

ILLUSTRATION	DESCRIPTION	MODEL	FEATURES	CODE	KEY
	Frame for pole mounting	For all models	Material: galvanised steel	G-0534	 
	Swivel base for 360° adjustment	SLED-MN-...	Material: aluminum RAL 7035 painted	G-153 + G-161	 
	Cable gland for nonarmored cables	SLED-MN-...	std. range cable 6,5÷14	NAV20IB	 
			std. range cable 11÷20	NAV25IB	
	Front glass	SLED-MN-400...	Material: tempered glass	G-1283	
		SLED-MN-600...		G-1275	
	Supporting bracket	SLED-MN-400...	Material: galvanised steel	G-1282	
		SLED-MN-600...		G-1276	
	LED board	SLED-MN-400100		G-1373/2	
		SLED-MN-400150		G-1373/2 (x2)	
		SLED-MN-400200		G-1373/2 (x2)	
		SLED-MN-600300		G-1371	
		SLED-MN-600400		G-1371 (X2)	
		SLED-MN-600500		G-1371 (X2)	
	Power supply	SLED-MN-400100	110-277 Vac	LEDDEVL080/4/4	
		SLED-MN-400150	110-277 Vac	LEDDEVL100/1/11	
		SLED-MN-400200	110-277 Vac	LEDDEVL100/1/3	
		SLED-MN-600300	100-277 Vac	LEDDEVL601/1-990MA	
		SLED-MN-600400	110-277 Vac	LEDDEVL100/1/12 (X2)	
		SLED-MN-600500	110-277 Vac	LEDDEVL100/1/2 (X2)	

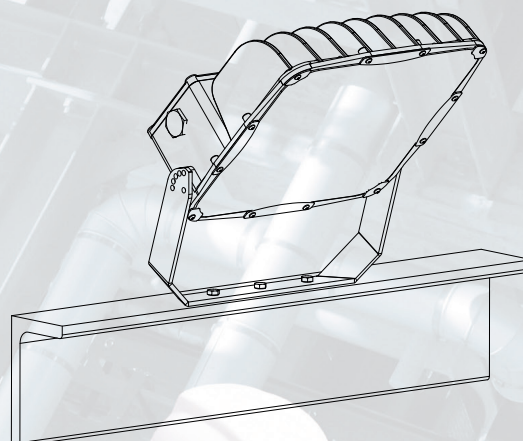
Example of pole mounting



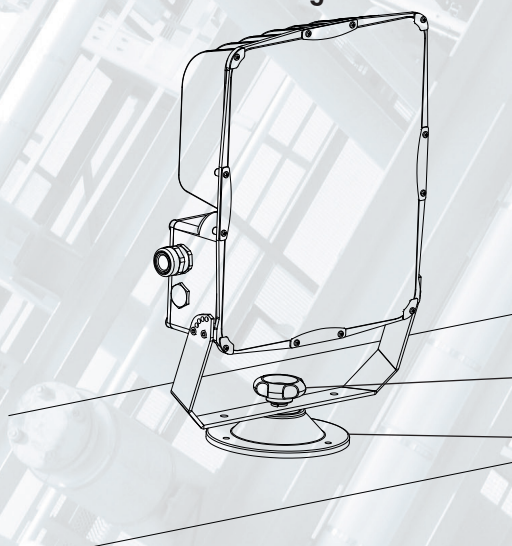
Example of vertical mounting on structure



Example of horizontal mounting on structure



Example with base for swivel fixing



Clamping knob with 5 lobes cod. G-153

Fixing base in aluminum cod. G-161