

Lighting Protection

Resource card

Lighting IP protection ratings		IPX_	Moisture Protection		
PXX			9	High Pressure & Temperature Jet	-01
Protection from Solid objects/dust and moisture			8	Pressure Watertight >1m submer- sion tested at 1.3x Rating	
IP_X	Solid Objects and Dust Protection		7	Watertight 1m submersion	
6	Dust Tight No dust entry		6	Powerful Jet Proof 100kN/m²	-18
5	Dust Proof		5	Jet Proof 30kN/㎡	
4	Solid Objects >1mm		4	Splash Proof Water spray 360 ⁰	#
3	Solid Objects >2.5mm		3	Rain Proof Water Spray 60 ^o from vertical	
2	Accessibility Probe >12mm		2	Drip Proof when tilted 15° from vertical	
1	Solid Objects >50mm		1	Drip Proof Vertical Drops	
0	Not Protecte	d/Evaluated	0	Not Protected/	Evaluated

Global lighting solutions partner

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Lighting IK Protection Ratings "IKXX"

Degrees of protection against external mechanical impacts

IK Code	IK00	IK01	IK02	IK03	IK04	IK05
Impact Energy, J	Not protected	0,14	0,2	0,35	0,5	0,7
IK Code	IK06	IK07	IK08	IK09	IK10	
Impact Energy, J	1	2	5	10	20	

IEC	COLOR CODING	NORTH AMERICA	
BROWN	LINE	BLACK	
BLUE	NEUTRAL	WHITE	
GREEN&YELLOW	EARTH / GROUND 🚇	GREEN	
IEC	BRANCH WIRE	NORTH AMERICA	
1.5mm ² -2.5mm ²	TYPICAL SIZE	14-12 AWG	
IEC	CLASSIFICATIONS	NORTH AMERICA	
CLASS I	EARTH / GROUND	GROUNDED	
CLASS II 🗆	DOUBLE INSULATION		
CLASS III 🕪	LOW VOLTAGE SUPPLY	Class 2 Powered	

COMMON IEC SYMBOLS AND RATINGS FOR LIGHTING

t _a	Ambient Temperature Rating		
t _c	Maximum Case Temperature Rating		
t _w	Maximum Winding Temperature Rating		
U_{out}	Maximum Working Voltage (Used for Spacings and Dielectrics)		
	Class II – Double Insulated (Not Earthed/Grounded)		
(III)	Class III – SELV powered (Not Earthed/Grounded)		
	Lamp Control Gear with SELV Output		
	Independent Lamp Control Gear		
<u> </u>	Built-In LED Module		
	Do Not Stare at Light Source (Required for certain Photobiological Classifications)		
4	Caution – Risk of Shock		
	Temperature Declared Thermally Protected Lamp Control Gear (End product testing simplified if less than 130)		
<u><u>*</u> (8) <u>*</u></u>	Recessed – Not intended for Insulation Contact		

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