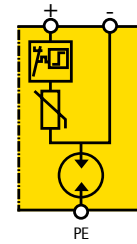
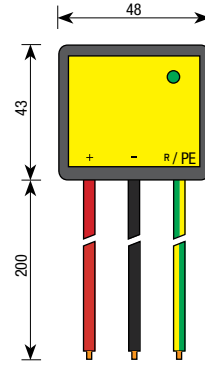
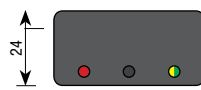




Surge Protective Devices: ZOTUPCOMB



IL 1/10 2P LED

IL 1/10 2P LED is a combined voltage limiting and voltage switching SPDs providing two modes of protection, typically installed at the LED driver DC output terminals and/or close to the LED panels/bars, with the following features and benefits:

- **Impulse test classification: Test Class II** according to **IEC 61643-11(2011-03)** and **Type 2** according to **EN 61643-11 (2012-10)**;
- Allows the application of LED lighting systems in outdoor locations where a high level of exposure to surges is expected;
- Reduces maintenance costs and extends the lifetime of the lighting system;
- Applicable to lighting systems with protection class I and II and with protective separation of the DC circuitry, provided there is a reliable PE-connection at the point of installation;
- The pigtail connections allow quick installation in both new and existing installations;
- Local optical indication of operating status;
- Suitable for installation at LPZ boundaries $O_b - 1$ and higher according to the lightning protection zones concept.

Model IL 1/10 2P LED ...

CODE		230	320	440
Maximum Continuous Operating Voltage	U_c	300 V dc	385 V dc	565 V dc
Test Class according to IEC 61643-11 Ed.1 (2011-03)		II		
Type according to EN 61643-11 (2012-10)		T2		
Total discharge current 8/20 μ s	I_{total}	20 kA		
Nominal discharge current 8/20 μ s (+/- to PE)	I_n	10 kA		
Maximum discharge current 8/20 μ s (+/- to PE)	I_{max}	25 kA		
Voltage protection level (all modes)	U_p	≤ 1500 V	≤ 1700 V	≤ 2100 V
Response time (+ to -)	t_a	≤ 25 ns		
Response time (+/- to PE)	t_a	≤ 100 ns		
End of life		OCFM (open circuit failure mode)		
Status indicator		green LED		
Max. back-up protection, if not already provided in the upstream installation		16 A gG / C 16 A		
Operating temperature range		- 40 ... + 60 °C		
Connecting wires		1,5 mm ² ; l = 200 mm		
Enclosure material		thermoplastic		
Pollution degree / Degree of protection	PD / IP	2 / 20		
Approximate weight		60 g		
Dimensions		l 48 x h 43 x d 24 mm		
GTIN (EAN)		8054890321044	8054890320481	8054890320498

TECHNICAL DATA