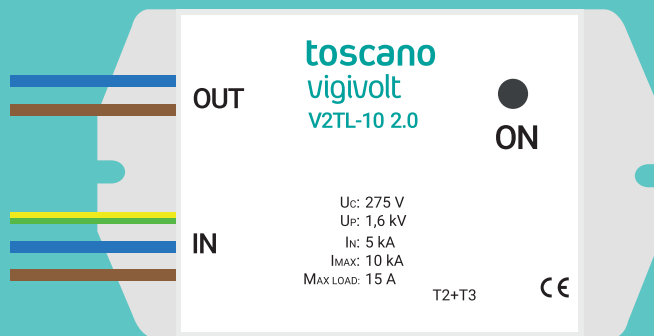




WARNING!

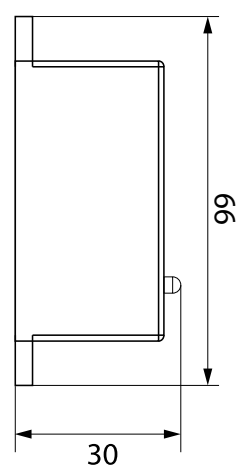
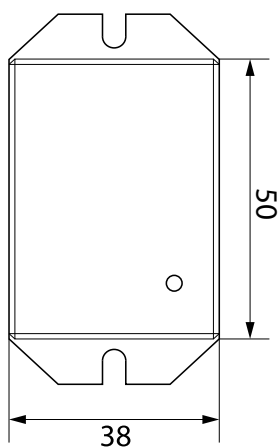
- The installation, maintenance and eventual replacement of this device must only be carried out by a qualified electrician.
- This device must not be repaired.
- All applicable local, regional and national regulations must be complied with during the installation, use, maintenance and replacement of this device.
- This device should not be installed if, when unpacking it, you observe that it is damaged.
- Toscano cannot be held responsible in the event of non-compliance with the instructions in this document and in the documents to which it refers.
- For the correct operation of the equipment, the phase must be connected to the brown cable and the neutral to the blue cable. Do not install on lines without neutral (N) and without protective earth (PE).



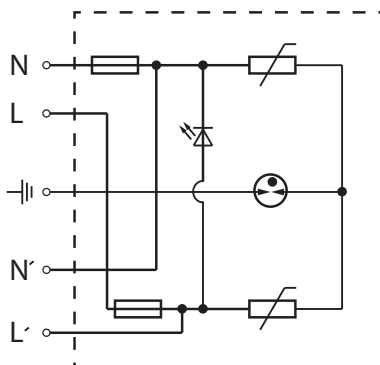
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Turn off all power supplying this device before working on it.
- Use a voltage tester on an appropriate range to verify that all live conductors are not energized.
- Failure to follow these instructions will result in death or serious injury.

Dimensions



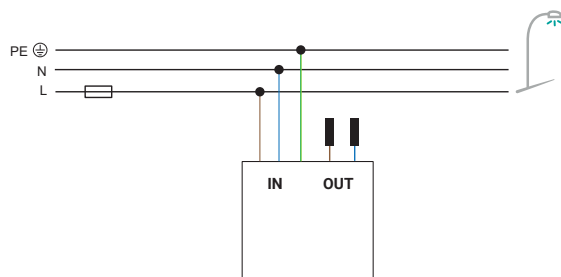
Electrical diagrams



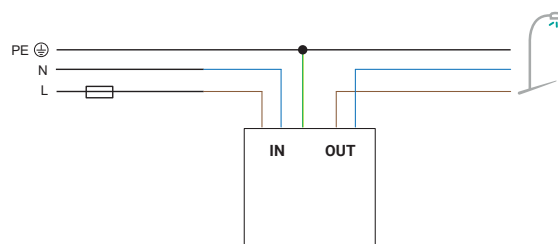
Wiring



In case of parallel connection, the output cables (OUT) must be properly insulated.



PARALLEL CONNECTION



SERIES CONNECTION

Technical specifications

GENERALS	Rated voltage U_n	230 VAC
	Maximum voltage U_c	275 VAC
	Frequency	50-60 Hz
	Maximum terminal cross-section	1 mm ²
	Cable length	110 mm
	Environmental limits	-40 ° +80 °C
	Protection	IP65
	Mounting	Aerial
	Standards	2014/35/UE (LVD) 2014/30/UE (EMC) 2011/65/UE (RoHS)
	Dimensions (width x height x depth)	65 x 37 x 29 mm
OVERVOLTAGE	Average weight approx.	9 g
	Level protection U_p	≤1.6 kV
	Maximum discharge current (8/20μs) I_{max}	10 kA
	Rated discharge current (8/20μs) I_n	5 kA
	Combination wave (1.2/50μs) U_{oc}	10 kV
	Overvoltage response time	≤100 ns
	Insulation class luminaires	Suitable for class I and II
	Type	2 + 3
	Product standards	IEC/EN 61643-11

Description

Transient overvoltage protection module, caused by lightning strikes, switching operations in electrical circuits, and electrostatic discharges. Prevents damage that these transient overvoltages may cause to LED luminaires.

This equipment DOES NOT PROTECT against PERMANENT overvoltage.

Operation

In the event of a transient overvoltage, the equipment absorbs it, thus preventing any damage to the devices connected to the network. If the green indicator turns off, the equipment must be replaced, as the protection has been depleted.

In case of series connection, and if due to an overvoltage the protection becomes inoperative, the luminaire will turn off.

Green indicator: Monitoring.

Check the standards that our products comply with and download their declaration of conformity at:
toscano.es/standards

