

# Surge Protection Isolator



## Single phase isolator with surge protection

Protect the infrastructure of street lighting columns from transient over-voltages with the Surge Protection Isolator.

The unit is equipped with a 32A Double Pole isolator and a 25A fuse carrier. It features a lockable fuse carrier and transparent access cover for user safety and quick visual maintenance checks. The device includes a 63A Surge Protection Device to manage unpredicted load.

All these parts have been specified against the latest British Standards and the recently published 'IET 18th Edition Wiring Regulations'. The isolator has also been through third party KEMA testing to ensure the use of high quality components and design.

## Features

### Safe

- Designed to ensure electrical safety and stability in street lighting infrastructure
- Made from high quality thermoplastics, tested to UL94-V0, to protect components within and connected to the streetlight, in the instance of electrical over-voltage
- Integrated within lamppost to contain fault within column – minimising risk of injury
- Lockable fuse carrier and transparent front access cover

### Efficient

- Can extend luminaire and installation lifetime, protecting both equipment and investments
- One time installation for surge protection throughout lifecycle of lamppost
- Shrouded test probe access to incoming and outgoing control module terminals
- Provides additional protection to high cost devices at top of column

### Reliable

- Pre-loaded cross head corrosion resistant fixing screws
- Third party tested by KEMA to relevant standards
- Designed and manufactured in accordance with quality management system ISO9001
- BS EN 61439-1

## Dimensions

Size (mm)	Midi	Maxi
Length (L)	173mm	170mm
Width (W)	90mm	60mm
Depth (D)	80mm	83mm

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## Technical Specification

Specification	THM0139140	THM0148682	THM0148823	THM0148952
cable entry/exit	2 x 25mm Grommet	2 x 25mm Grommet	2 x 25mm Grommet	2 x 25mm Grommet
isolator rating	32A double pole isolator	32A double pole isolator	32A double pole isolator	32A double pole isolator
fuse carriers	BS88 fuse carrier	BS88 fuse carrier	2 x BS88 fuse carriers	2 x BS88 fuse carriers
block	internal earth block	internal earth block	internal earth block	internal earth block
gland plate	plastic plate	Brass plate	Brass plate	plastic plate
Grommets	2 grommets	2 grommets	2 grommets	2 grommets
Tails	L/N/E 6mm <sup>2</sup> x 350mm tails fitted	L/N/E 6mm <sup>2</sup> x 350mm tails fitted	L/N/E 6mm <sup>2</sup> x 350mm tails fitted	L/N/E 6mm <sup>2</sup> x 350mm tails fitted
Trough	Short Ext Trough	Short Ext Trough	Short Ext Trough	Short Ext Trough
IP Rating	IP44	IP44	IP43	IP43
SPD according to EN 61643-11	Type 2	Type 2	Type 2	Type 3
Power supply system	Single phase	Single phase	Single phase	Single phase
Max continuous operating AC Voltage	275V (50/60 Hz)	275V (50/60 Hz)	275V (50/60 Hz)	275V (50/60 Hz)
Nominal discharge current (8/20 $\mu$ s)[L-N](I <sub>n</sub> )	5 kA	5 kA	5 kA	5 kA
Nominal discharge current (8/20 $\mu$ s)[N-PE](I <sub>n</sub> )	20 kA	20 kA	20 kA	20 kA
Max discharge current (8/20 $\mu$ s)[L-N](I <sub>max</sub> )	15 kA	15 kA	15 kA	15 kA
Max discharge current (8/20 $\mu$ s)[N-PE](I <sub>max</sub> )	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	≤ 1.5k V	≤ 1.5k V	≤ 1.5k V	≤ 1.5k V
Response time [L-N]	≤ 25 ns	≤ 25 ns	≤ 25 ns	≤ 25 ns
Response time [N-PE]	≤ 100 ns	≤ 100 ns	≤ 100 ns	≤ 100 ns

Please contact our sales office for further details

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