

## MTL LS15K-KP30 range

### Surge and transient protection for LED lighting systems

- 15kA surge protection per mode
- Protects LED lighting systems and drivers
- Space-saving footprint for mounting in confined locations
- Protects 100-277V systems
- High performance to size ratio
- Inbuilt Thermal protection
- Inbuilt LED status indication feature
- Fully automatic operation
- Parallel connection
- IP66 protection allows for installation in extreme environments
- Optimized Single Stage technology
- 10 year product warranty



**The LS15K-KP30 range of surge protection devices** are versatile, high performance surge protection devices which can be used within a wide variety of equipment in industrial and commercial applications. The circuitry will protect equipment from damaging electrical transients and disturbances.

**The space-saving footprint** allows the LS15K-KP30 range to be mounted in confined locations whilst providing protection the Line/Neutral, Line/Ground, and Neutral/Ground modes.

**We provide a high performance-to-size ratio** by utilizing a hybrid of Metal Oxide Varistor (MOV) and state-of-the-art failure disconnect network giving added peace of mind.

**Fully automatic in operation**, the LS15K-KP30 range reacts immediately, clamping voltage surges without causing undue leakage losses under normal operation. No operator intervention is required, the LS15K-KP30 range resets automatically and are maintenance-free

**Optimized Single Stage technology** with high discharge current rating ensures better performance under multiple surge events. The series is available in Universal Voltage range covering 100-277V, which reduces your inventory and cost.

**High maximum operating voltage ranges** allows the LS15K-KP30 range to endure large over-voltage swings that damage most other SPDs. Low limiting voltage even at high surge current levels, provides optimal protection and ensures longevity of the LED drivers.

**Parallel version.** The LS15K-KP30 range is available in Parallel version which disconnect themselves from the load under fault conditions leaving power to the load.

**Meeting and exceeding** the requirements of ANSI/IEEE C62.45 & ANSI/IEEE C62.41 the LS15K-KP30 range is also a Type 2+Type 3 SPD according to IEC61643-11. With ingress protection to IP66, the LS15K-KP30 range can be installed in most locations and carries an unrivalled "no fuss" 10 year manufacturer's warranty.

**LED status indication facility** is available as a standard feature. This displays both 'power on' and that protection is present. Thermal fusing is also incorporated into the device as an additional safety feature.

# MTL LS15K-KP30 range

October 2020

## SPECIFICATION

**SPD according to UL1449,4th edition- Type 4CA**

**SPD according to IEC61643-11 – T2+T3**

**Nominal discharge current, In**

10kA (8/20µs)

**Maximum surge current, I<sub>max</sub>**

15kA (8/20µs)

**Open circuit voltage**

10kV (1.2/50 µs)

**Leakage current**

<0.3mA

**Maximum continuous operating current**

Unlimited Amps: Parallel connected units

**Working voltage**

400V DC/100-277V AC, 50/60Hz

**Ambient temperature limits**

-40°C/-40°F to +75°C/167°F (operating)

-40°C/-40°F to +100°C /212°F (storage)

**Humidity**

5 – 95% (non condensing)

**Terminal/Leads**

2.5mm<sup>2</sup> (14AW)

**TOV withstand**

UT- 402V ( 5sec), 528V (120 min)

**Response time**

<25nS

**LED**

ON = Protection present, OFF = Replace SPD

**Casing**

High Temperature, PC UL94-V0

**Weight**

120 grams (4.2 oz.) approx.

**Dimensions**

See Figures

**Ingress protection**

IP66

**Standards**

- ANSI/IEEE C62.41: 2002 Location C, High Exposure
- IEC61643-11:2011 Type2+Type3
- Meets Surge Protection Requirements of : US Air Force ETL 10-2 LED Fixture Design & Installation Criteria
- Commercial Building Energy Alliances (CBEA) LED Lighting Performance Specifications

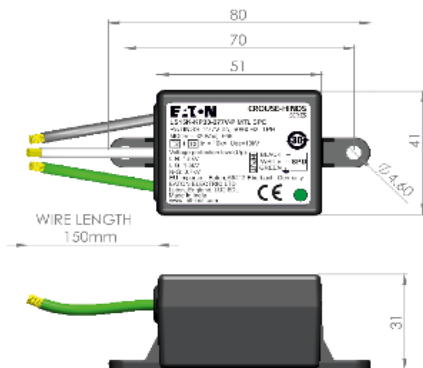
**Over Current protection**

- Backup fuse rating-50A(gG)

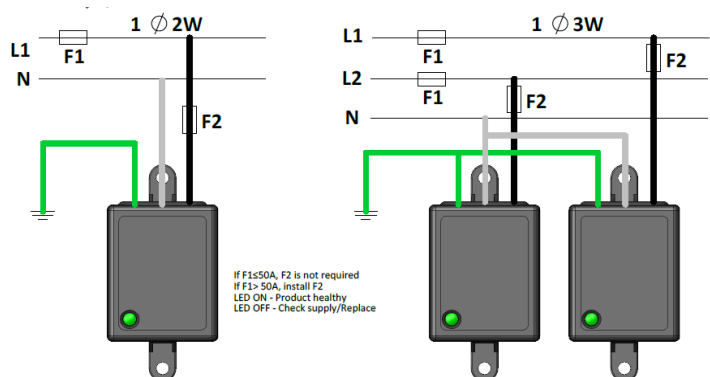
## ORDERING INFORMATION

Model	Circuit Type	Service	Modes	Maximum Surge Current	Maximum Continuous Operating Voltage	Up
LS15K-KP30-277V-P	Parallel, 1-stage, Corner LED	100-277V AC	L-N, L-G, N-G	15kA	320Vac	L-N:1500V
						L-G :1500V
						N-G :700V

## DIMENSIONS IN MM



## WIRING DIAGRAM



**Eaton Electric Limited,**  
Great Marlings, Butterfield, Luton  
Beds, LU2 8DL, UK.  
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283  
E-mail: [mtlenquiry@eaton.com](mailto:mtlenquiry@eaton.com)  
[www.mtl-inst.com](http://www.mtl-inst.com)

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**EUROPE (EMEA):**  
+44 (0)1582 723633  
[mtlenquiry@eaton.com](mailto:mtlenquiry@eaton.com)

**THE AMERICAS:**  
+1 800 835 7075  
[mtl-us-info@eaton.com](mailto:mtl-us-info@eaton.com)

**ASIA-PACIFIC:**  
+65 6 645 9888  
[sales.mtlsing@eaton.com](mailto:sales.mtlsing@eaton.com)

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