MTL LS Range

Operating Instructions for LED Lighting Type 2 SPD

CAUTION	**CAUTION** Do not attempt to open or tamper with the SPD in any way as this will compromise performance and will void the warranty. Megger and hi-pot tests will damage this device. Disconnect all power supplying the equipment and isolate the SPD unit before testing. Prior to installation, confirm the SPD is rated for the correct voltage, and frequency equivalent to the application.

Installation

1) Turn off all power supplying this equipment.
2) Mount the SPD using the enclosure flanges to a flat surface.
3) Connect the wire leads as per the wiring diagrams below.
4) For optimal device performance, use shortest length of wire possible and avoid sharp or unnecessary bends.

Product Characteristics

Model	Voltage	Conn	Modes	Freq	In	Diagram
LS10-347V-S LS10N-347V-S2	120-347, 5A	SERIES	L-N, L-G, N-G	50/60	3 kA	A
LS10-480V-S LS10N-480V-S2	480, 5A	SERIES	L-G, L-L	50/60	3 kA	B
LS12-347V-P LS12N-347V-P2	120-347	PARALLEL	L-N, L-G, N-G	50/60	3 kA	C
LS12-480V-P LS12N-480V-P2	480	PARALLEL	L-G, L-L	50/60	3 kA	D

Powering Business Worldwide

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
www.mtl-inst.com

© 2017 Eaton
All Rights Reserved
Publication No. INS 801-745 Rev B 060117
January 2017

Wiring Diagrams

SERIES CONNECTED SPDs: Units designed to be connected in series with the LED driver for protection of the modes as listed in the table above. Refer to the connection diagrams to ensure that the SPD you have chosen is appropriate for the application it is being installed into. These range versions have internal protection that will disconnect the surge protective components and will not maintain power to the load. If this situation is undesirable for the application, replace the unit with a parallel connected type.

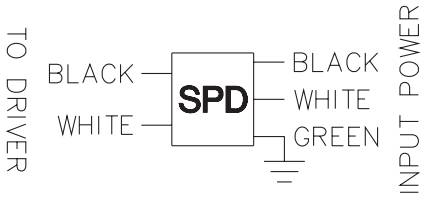

Figure A

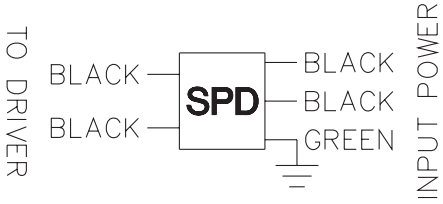

Figure B

PARALLEL CONNECTED SPDs: Units designed to be connected in parallel with the LED driver for protection of the modes as listed in the table above. Refer to the connection diagrams to ensure that the SPD you have chosen is appropriate for the application it is being installed into. These parallel versions have internal protection that will disconnect the surge protective components but will maintain power to the load – now unprotected. If this situation is undesirable for the application, replace the unit with a series connected type.



Figure C

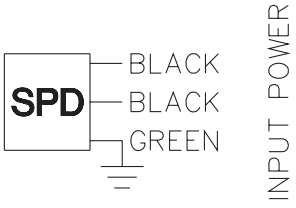

Figure D

Powering Business Worldwide

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
www.mtl-inst.com

© 2017 Eaton
All Rights Reserved
Publication No. INS 8012-745 rev B 060117
January 2017

EUROPE (EMEA):
+44 (0)1582 723633
mtlenquiry@eaton.com

THE AMERICAS:
+1 800 835 7075
mtl-us-info@eaton.com

ASIA-PACIFIC:
+65 6645 9864 / 9865
sales.mtlsing@eaton.com

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.