

Surge Protector Powercore

Date: _____
Type: _____
Firm Name: _____
Project: _____

**3/4 in NPT (US trade size conduit),
UL**

POWER/DATA SUPPLY

Delivers 4-line surge protection for Color Kinetics Powercore luminaires.

Surge Protector Powercore provides protection from electrical surge transients coupled on L, N, G, CKDMX data, 4-wire cables of Color Kinetics Powercore luminaires. With LED indicators inside-the-box, Surge Protector Powercore offers visual confirmation of surge protection for both power and data lines. Surge Protector Powercore is intended for use as part of a properly grounded lightning protection system.

The 3/4 in NPT entries in this time-tested IP66 rated enclosure allow easy conduit connections, and the clearly labelled terminal blocks and tethered cover make installations quick and simple.



- Surge Protector Powercore provides protection from electrical surge transients coupled on L, N, G, data, 4-wire cables of Color Kinetics Powercore luminaires.
- Provides protection from electrical surge transients coupled on the CKDMX data line.
- Surge Protection Powercore is certified in accordance with UL1449 5th Ed. tested at I_{n} 10kA achieving output of: 1 kV Line-Neutral, and 2 kV for Line-Ground, Neutral-Ground. Provides an additional layer of surge protection up to 12kV / 10kA.
- Intended for use as part of a properly grounded lightning protection system.
- On-board indicator LEDs provide visual confirmation of surge protection for both power and data lines.
- Also protects non-Powercore luminaires — Surge Protector Powercore also supports luminaires that don't have a data line (L/N/G) including Color Kinetics eW, eColor, Vaya luminaires, and others. Indicator LEDs react the same with L/N/G only installations.
- Outdoor-rated enclosure for damp and wet environments — Surge Protector Powercore offers superior leakage protection in a cast aluminium IP66, UL50E Type 4-rated enclosure.
- Conduit entries — Surge Protector Powercore conduit entries accommodate NPT conduit in 3/4 in US trade size.
- Easy installation — Accessible, clearly labelled terminal block connectors for 120 to 277 VAC power (L, N, G,) and data input, and protected L, N, data, output to luminaires in a single cable making installation easy. Tethered cover with captive screws ensures convenient removal and replacement.

For more information, please refer to
www.colorkinetics.com/global/products/pds/spp

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Electrical

Input Voltage	120 to 277 VAC, 50/60 Hz
Power Consumption	<0.1 W
Protection Mode	Diff (L-N) / Com (L-G N-G)
Max. Continuous Operating Voltage (MCOV)	320 VAC, 60 Hz @ 277 V
Nominal Discharge Current (I _N)	10 kA
SCCR	25 kA
Load Current	16 A

UL Type 2, 2 port

OV (60HZ)	277 VAC
MCOV	320 V
I _N	10 kA
VPR L-N	1 kV*
VPR L-G	2 kV*
VPR N-G	2 kV*
Data Protection	@100 A Impulse
VPR D-N	700 V

* VPR L-N, L-G, N-G values measured at 3 kA per UL 1449.

Connections

Threaded Openings 3/4 in NPT

Power/Data Input 4-wire PC terminal block connector†

Power/Data Output 4-wire PC terminal block connector†

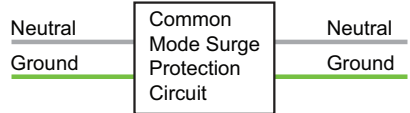
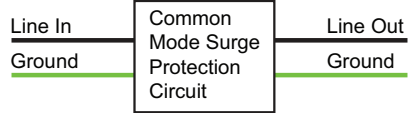
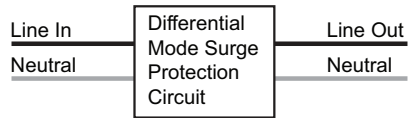
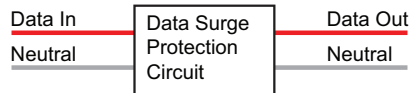
† PC terminal block connectors accept recommended wire sizes from 8 to 14 AWG (8.37 – 2.08 mm²) Stranded / Solid

Physical

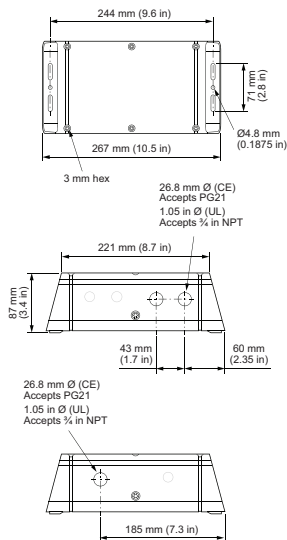
Dimensions	87 x 267 x 138 mm (3.4 x 10.5 x 5.4 in) (Height x Width x Depth)
Weight	2.4 kg (5.4 lb)
Housing	Cast aluminium enclosure with slots for surface mounting. Powder-coated, gray matte.
Operating Temperature	-40 to 55 °C (-40 to 131 °F)
Storage Temperature	-40 to 80 °C (-40 to 176 °F)
End of Life Indicator	2 LEDs When power is on and both LED's are on = Protected state.

Certification and Safety

Certification	UL1449 5th Ed.	UL/cUL
Classification		Type 2, 2 port
Environment	Dry/Damp/Wet Location, UL50E Type 4, IP66	



Dimensions



Part Numbers

Use Item Number when ordering in North America.

Power/Data Supply

	Item Number	Item 12NC
Surge Protector Powercore, 3/4 in NPT (US trade size conduit), UL	124-000001-01	912400137984



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Color Kinetics
www.colorkinetics.com