

PDS-80 CA 24V

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

**Four-Wire Terminal, 4A 24V, IP66,
PSE, for Flex Compact and Flex
Micro, eW**

POWER/DATA SUPPLY

Integrated data and power for 24V Flex Compact and Flex Micro, eW from Color Kinetics.

PDS-80 CA 24V features a power supply and CM-150 CA gen2 controller all within its rugged IP66 easy-access housing. Simple wiring, a tethered cover, narrow installation footprint, and a test button which confirms your devices are working as intended saves time and simplifies installation. PDS-80 CA 24V supports up to 80 W total power output, and 3 channel control for Flex Compact, and Flex Micro eW.



- Supported luminaires—PDS-80 CA 24V supports 3 channel control of all Flex Compact luminaires and Flex Micro eW luminaires up to 2 individual strings.
- Easy Installation—Accessible, clearly labeled terminal block connectors for DMX and Ethernet, line voltage, and luminaires make installation easy. Tethered cover with captive screws ensures convenient removal and replacement. Cables route through the narrow end of the housing providing a streamlined footprint.
- DMX and Ethernet (KiNET) input and output—Provides inputs and outputs for both DMX and Ethernet (KiNET) allowing you to daisy-chain multiple PDS-80 CA 24V in series.
- Surge protection—Built-in 6 kV protection from electrical surge transients coupled on power input side of L, N, G.
- Integrated test button and on-board diagnostics—Test luminaire connection confirming everything is working as expected before the control system is connected. On-board indicators provide visual feedback for normal operation, DMX and Ethernet connection detection, and Ethernet data transmission. Press the test button to show a color wash light show, press again to resume normal operation.
- Rugged housing—The PDS-80 CA 24V cast aluminium IP66-rated enclosure provides rock-solid reliability. Its conduit entries accommodate NPT conduit in US trade sizes of 1/2 in (data) and 3/4 in (power), or metric sizes of M20 (data) and M25 (power).

For more information, please refer to
<https://www.colorkinetics.com/global/products/pds/pds80-ca>

Specifications

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

Electrical

Input Voltage	100 or 200 VAC, auto-ranging, 50/60 Hz*
Fuse Rating	(2) 4A, fast blow fuses
Output Voltage	24 VDC
Power Output (maximum)	80 W
Power Consumption	20 W maximum
Surge Protection	6 kV maximum differential (L to N) 6 kV maximum common (L to Gnd or N to Gnd) For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection .

Connections

Threaded Openings	M25 for power / M20 for data (metric)
Data Input Source	Color Kinetics full range of controllers, third-party DMX controllers, or KiNET-compatible§ third-party Ethernet controllers§
Power Input	Power input via 3-pole terminal block that accepts 18 to 8 AWG (1 – 10 mm ²) wires
Power/Data Output	Luminaire output via 4-pole terminal block that accepts 20 to 14 AWG (0.5 – 2.5 mm ²) wires.
Data Input/Output	Quad-entry terminal block connectors that accept 24 to 16 AWG (0.2 to 1.5 mm ²) wires
Compatible Luminaires	Flex Compact RGB/iW/eW Flex Micro eW

* Verify that the line voltage is appropriate for the lighting luminaires in your installation. See a specific luminaire's documentation for supported line voltages.

§ KiNET is the Ethernet lighting protocol from Color Kinetics.

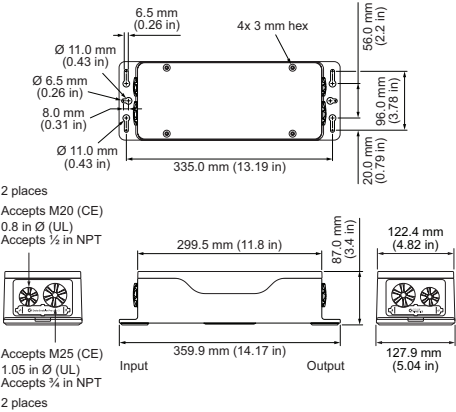
Physical

Dimensions	87 x 359.9 x 127.9 mm (3.4 x 14.17 x 5.04 in) (Height x Width x Depth)
Weight	3.0 kg (6.6 lb)
Housing	Cast aluminium enclosure with slots for surface mounting. Powder-coated industrial gray matte.
Operating Temperature	-10 to 50° C (14 to 122° F)
Startup Temperature	-10 to 50° C (14 to 122° F)
Storage Temperature	-40 to 80° C (-40 to 176° F)
Humidity	0 to 95%, non-condensing
Cooling	Convection
Heat Dissipation	20 W

Certification and Safety

Certification	PSE
Environment	Dry/Damp/Wet Location, IP66

Dimensions



Part Numbers

Use Item Number when ordering in North America.

Power/Data Supply	Item Number	Item 12NC
PDS-80 CA 24V, Four-Wire Terminal, 4A 24V, IP66, PSE, for Flex Compact and Flex Micro, eW	109-000201-03	912400138370
Accessories		
Leader Cable connecting PDS-80 CA 24V to all Flex Compact or Flex Micro, eW		
15.2 m (50 ft), Black for PDS-80 CA 24V, IP00	108-000080-01	912400135907
30.5 m (100 ft), Black for PDS-80 CA 24V, IP00	108-000080-02	912400135908
2-part Leader Cable and Dongle		
*The 2-part leader cable allows flexibility with installation or maintenance challenges. The Flex Dongle and Leader Cable are both required to create a complete Flex Leader Cable connecting to PDS-80 CA 24V		
30.5 m (100 ft), Black connects to PDS-80 CA 24V, IP00	108-000080-12	912400137820
Flex Dongle 278.8 mm (10.9 in), Black	108-000082-00	912400137819



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Color Kinetics
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