

Data Enabler Pro gen3

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

**3/4 in / 1/2 in NPT (U.S. trade size
conduit) 100 to 277 VAC**

POWER/DATA SUPPLY

Integrating power and data for Powercore LED luminaires

This next generation Data Enabler provides many new features including longer single run lengths for luminaires, support for DMX and Ethernet (KiNET and sACN) protocols, Gigabit ethernet, an integrated test button, a smarter, narrower installation footprint including an easy-access housing, and improved 6 kV surge protection. The cast aluminium IP66-rated enclosure provides rock-solid reliability, and the clearly labeled connectors and smart diagnostic tools make for easier installations. Data Enabler Pro gen3 is compatible with any Powercore luminaire.



- Easy installation—Accessible, clearly labeled terminal block connectors for DMX and Ethernet, line voltage, and luminaires makes 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.
- On-board testing and 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.
- DMX and Ethernet—Provides inputs and outputs for both DMX and Ethernet (KiNET and sACN*), allowing you to connect multiple Data Enabler Pro devices in series. Also provides an Ethernet output terminal for Accent MX Powercore support.
*sACN available via firmware update.
- Supports Powercore luminaires—Powercore merges line voltage with control data and delivers both over a single standard cable—dramatically simplifying installation and lowering total system cost. Combined with Powercore gen2 enabled luminaires gives you longer single run lengths.
- Faster connections—Accommodates a variety of networking environments with two 100 MB IDC connectors and one GB RJ45 connector.
- Designed for maximum energy efficiency—Data Enabler Pro consumes just 20 W maximum. Optional power-saving modes automatically cut power to attached lights when lights are off for a configurable number of minutes.
- Surge Protection—Built-in 6 kV protection from electrical surge transients coupled on L, N, G, data 4-wire cables of Color Kinetics Powercore luminaires.

For more information, please refer to
www.colorkinetics.com/global/products/pds/dataenablerpro3

Specifications

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

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz*
Maximum Input Current	16.5 A maximum
Load Current	16 A maximum
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) Up to 4kV protection on data line

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Connections

Threaded Openings	3/4 in NPT for power 1/2 in NPT for data (US trade)
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Data Input Source
Color Kinetics full range of controllers, third-party DMX controllers, or KiNET-compatible[§] third-party Ethernet controllers, or sACN controllers.

Power Input	Power input via 3-pole terminal block that accepts 18 to 8 AWG (1 – 10 mm ²) wires
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Power/Data Output

Luminaire output via 4-pole terminal block that accepts 18 to 8 AWG (1 – 10 mm²) wires. Separate power and data output for Accent MX Powercore

DMX Input/Output

DMX input and loop-thru via 4-pole terminal block connectors that accept 24 to 16 AWG (0.2 to 1.5 mm²) wires

Ethernet Input/Output

1x Gigabit Ethernet via 8P8C (RJ45) connector
2x 100 Mbit Ethernet via 2-pair single-entry IDC connectors that accepts 26 to 22 AWG (0.22 to 0.34 mm²) wires

* 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	-40 to 50 °C (-40 to 122 °F)
Startup Temperature	-20 to 50 °C (-4 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

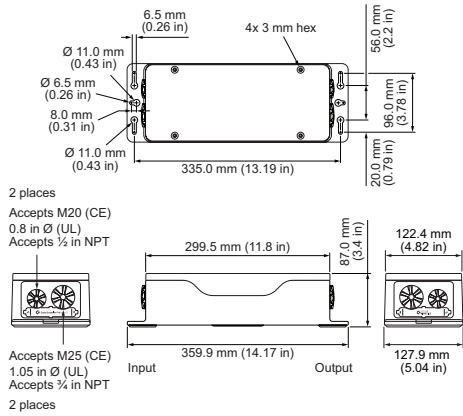
Quantity Per PDS

Quantity variable, based on power consumption, data limits, and cable limits. See Configuration Calculator for more information.
www.colorkinetics.com/global/support/install-tool

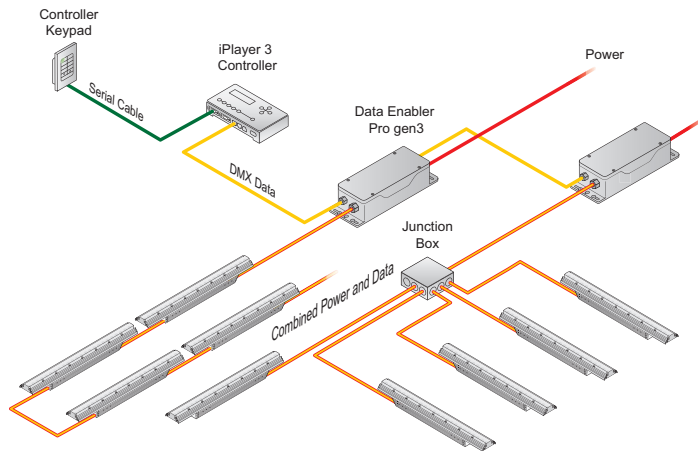
Certification and Safety

Certification	UL/cUL, FCC Class A, CE
Environment	Dry/Damp/Wet Location, IP66

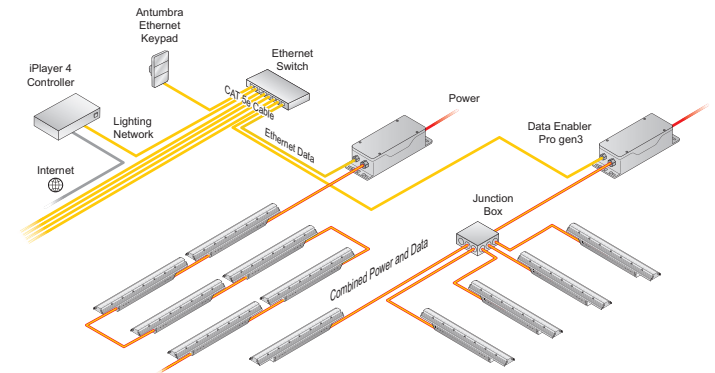
Dimensions



DMX Configuration



Ethernet Configuration



Part Numbers

Use Item Number when ordering in North America.

Power/Data Supply	Item Number	Item 12NC
Data Enabler Pro gen3, 3/4 in / 1/2 in NPT (U.S. trade size conduit) 100 to 277 VAC	106-000004-04	912400138114



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Color Kinetics
www.colorkinetics.com