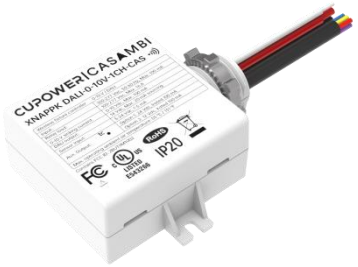
XNAPPK DALI-0-10V-1CH-CAS

Art.167203

Product features

- Casambi Bluetooth Mesh Enabled Wireless Control
- Long-range, single-channel 0-10 V/DALI controller with built-in 16 A relay
- Simply remove a standard 1/2'' knockout to install the compact module
- 12 Vdc & 24 Vdc auxiliary output for sensor based control
- Use of a relay, 0-10 V dimming, DALI dimming and a 1/2" knock-out enable，compatibility with many standard industry fixtures
- Commissioning & parameter setup via dedicated mobile App, compatible with iOS & Android OS
- Utilizes bluetooth mesh technology for reliable and secure wireless communication
- Switching Relay with Zero-Crossing
- 5 years warranty



Electrical specifications

Mains voltage supply	
Rated input voltage range	120...277 Vac
Max. input voltage range	108...305 Vac
Rated frequency range	50/60 Hz
Max. input current	0.04 A
No-load standby power	< 0.5 W
Max load current	16.0 A
RF transmit power	+ 4 dBm
Turn-on delay time	< 0.5 s
Max 0-10 V sinking current	100 mA
Wireless frequency	2.4 GHz
Wireless range (open air)	50 m

Protection against voltage peaks	
Withstand voltage	I/p-O/p: 1.5 kVac, < 5 mA 60 sec
Mains surge immunity	L-N 1 kV, L-E 2 kV, N-E 2 kV

Relay contact rating	
Rated input voltage range	120…277 Vac
Max. input voltage range	108...305 Vac
Rated frequency range	50/60 Hz
Rated input current	16 A

Output data	
Output voltage 0-10 V	0...10 Vdc
Sink current 0-10 V	100 mA
Output voltage DALI	12 Vdc
Output current DALI	20 mA

Hunan Xiezhen Electronics Co., Ltd.
Block A&B, Building 11, Innovation Park Linyi Road,
Bailutang Town Suxian District, Chenzhou, Hunan - China

CUPOWER Europe GmbH
Ahornweg 5a
58675 Hemer - Germany

CUPOWER North America, Inc.
655 Raco Dr. Suite A,
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Sensor output	
Sensor type	Motion (ON/OFF)
Output voltage	12 Vdc & 24 Vdc
Output current	0.1 A (0.2 A Max) @ 12 Vdc; 0.1 A @ 24 Vdc

Connection terminals	
Fixed Device	Locknut with ½" NPT-thread
Mains input L	12 AWG
Mains input N	18 AWG
Galvanically isolated Relay output	12 AWG
The low voltage sensor input	18 AWG
The low voltage output (0-10 V/DALI)	22 AWG

Environmental specifications

Operating temperature	-20…+55°C
Storage temperature	-20…+85°C
Working humidity	10%…90%
Store humidity	5%…95%
Lifetime rating	at Tc 75°C: 50,000 hrs
Moisture and dust rating	IP20

Safety & EMC compliance

UL
UL8750
CSA C22.2 No.250.13

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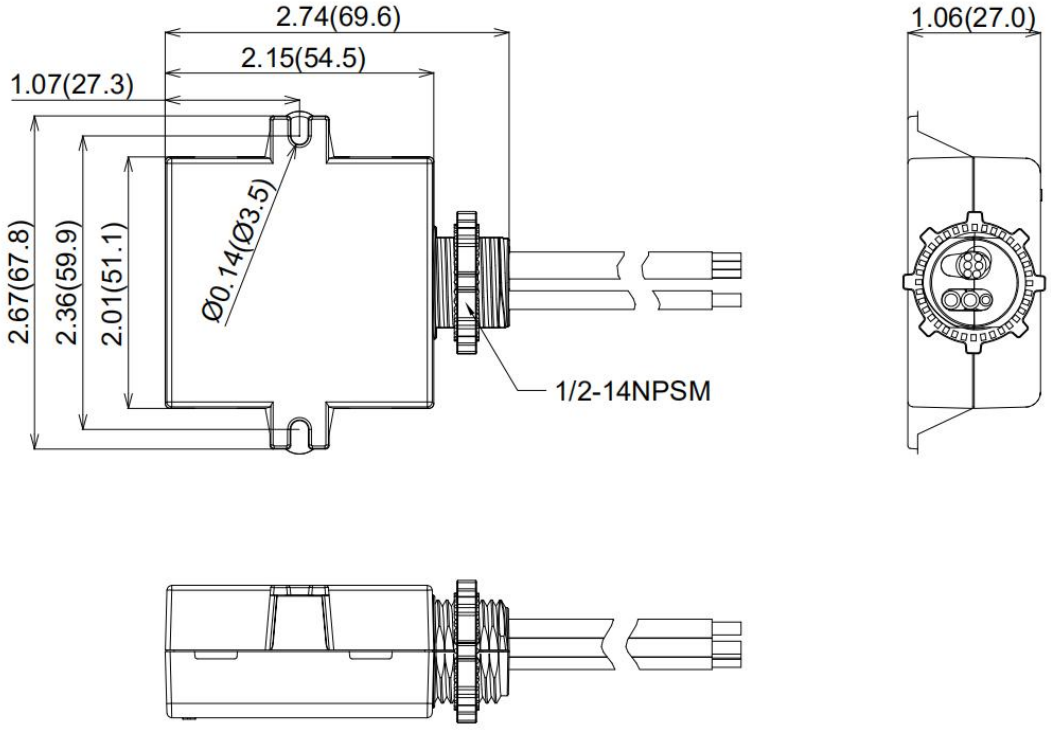
Dimensions

Housing dimensions

Length (L)	2.74 in (69.6 mm)
Width (W)	2.67 in (67.8 mm)
Height (H)	1.06 in (27.0 mm)
For all dimensions: values in in/mm, tolerances: ± 0.5 mm	

Packaging details

Packing units	40 pcs
Carton size	21.67 x 10.28 x 8.58 in (322 x 260 x 218 mm)
Carton weight	5 kg
Product weight	0.11 kg



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Configuration Details

in app description	Description	Wiring Diagram	Type of device connected
XNAPPK 0-10V-1CH	A 0-10 V dimmer with one slider in application to control light level. An On/Off toggle switches the relay output on or off in app.	1	0-10 V Driver
XNAPPK 0-10V-1CH NO Relay	A 0-10 V dimmer with one slider in application to control light level. Relay is OFF at 0% and ON at levels above 0%.	1	0-10 V Driver
XNAPPK 0-10V-1CH-Relay	A 0-10 V dimmer with one slider to control light level. PIR sensor input acts as a sensor trigger, the module appears in app under sensors and operation can be adjusted. Relay is OFF at 0% and ON at levels above 0%.	2	0-10 V Driver, PIR sensor
XNAPPK DALI-1CH	A broadcasting DALI dimmer with a slider in the application to control light level. PIR or Daylight sensor input acts as a sensor trigger. DALI dimming curve is logarithmic. An On/Off toggle switches the relay output on or off in app.	3	DALI DT6 Driver, PIR & Daylight sensor
XNAPPK DALI-7CH	A DALI dimmer with 7 sliders in the application to control light level. DALI drivers can be addressed. PIR or Daylight sensor input acts as a sensor trigger. DALI dimming curve is logarithmic and relay is off in start up.	4	DALI DT6 Driver, PIR & Daylight sensor
XNAPPK DALI-RGB	A RGB control with light intensity, color and color saturation sliders. Connected driver is broadcast controlled with a linear dimming curve. An On/Off toggle switches the relay output on or off in app.	5	DALI DT8 RGB Driver
XNAPPK DALI-RGBW	4-channel compatible RGBW DALI DT8 profile supporting “RGBWAF” -color type. Dimming, white, color and color saturation sliders to control light color / white. White color slider in percentage levels. PIR input acts as a sensor trigger. Driver is broadcast controlled with a linear dimming curve. An On/Off toggle switches the relay output on or off in app.	6	DALI DT8 RGBW Driver, PIR sensor
XNAPPK DALI-TW	A tunable white control for light intensity and color with separate sliders. Light color adjustable between 2700 and 6500 K. PIR or daylight sensor input acts as a sensor trigger. Connected driver is broadcast controlled with a linear dimming curve. An On/Off toggle switches the relay output on or off in app.	7	DALI DT8 TW Driver, PIR & Daylight sensor
XNAPPK Sensor	The module serves as a wireless interface/converter for the Casambi network. It accepts binary trigger signals (High/Low logic level) from an external PIR sensor or an external daylight threshold switch.	8	PIR & Daylight sensor
XNAPPK DALI/BC/Switch	A broadcasting DALI dimmer with a slider in the application to control light level. Supports push button inputs for on/off control and dimming.	9	DALI DT6 Driver, Push button

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Wiring Diagram

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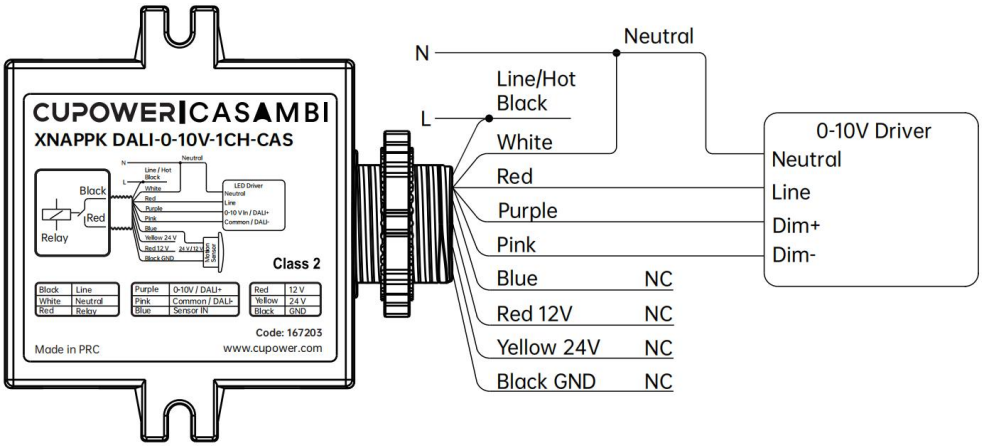

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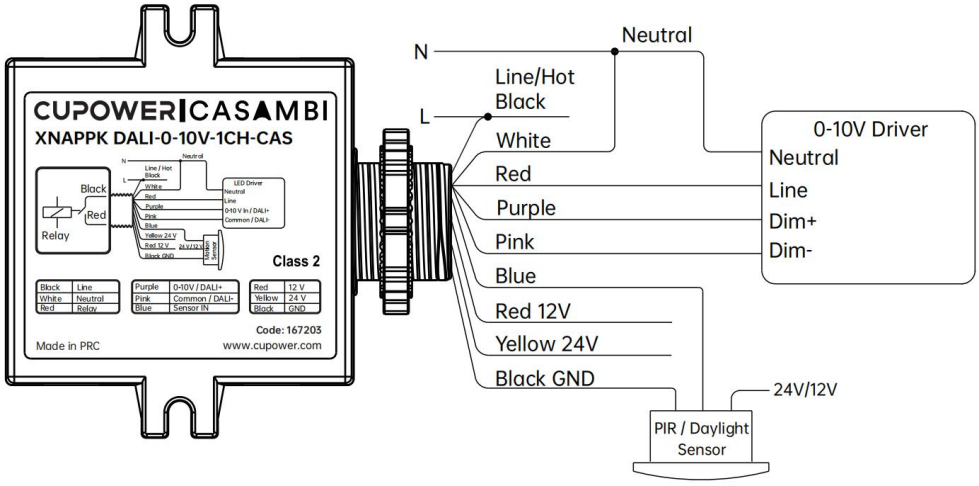

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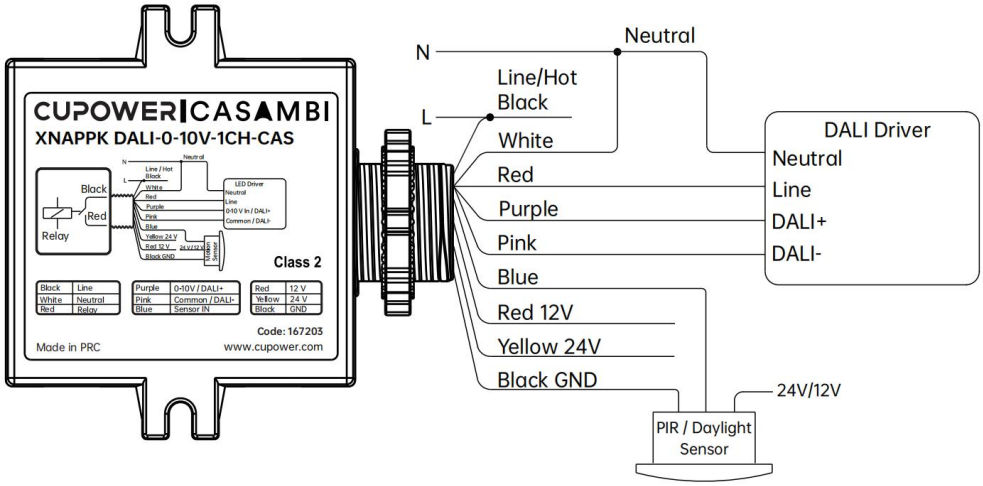

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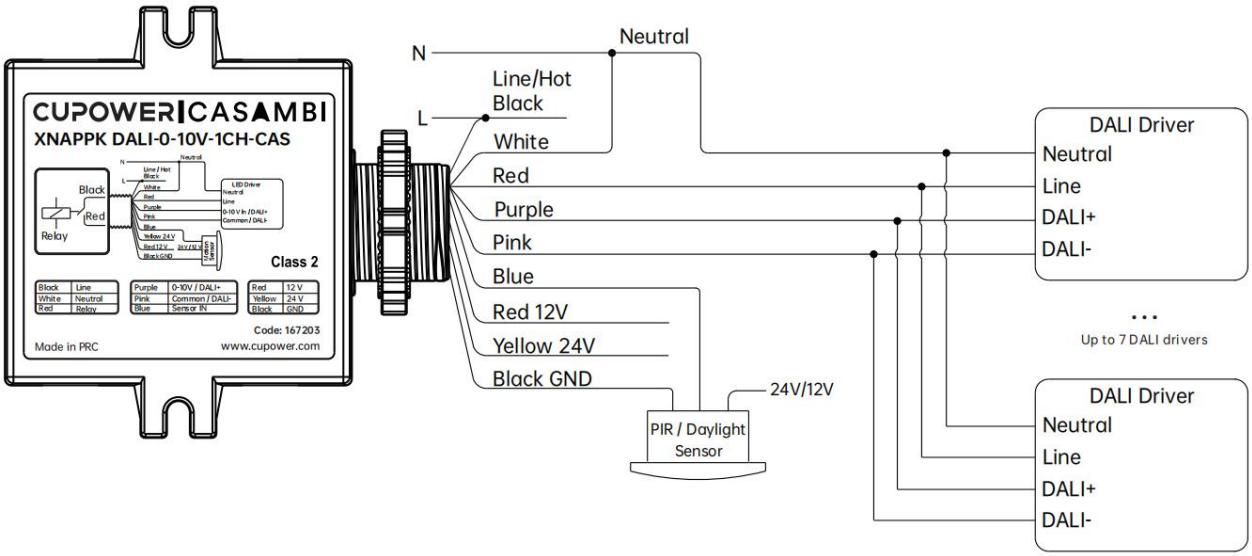

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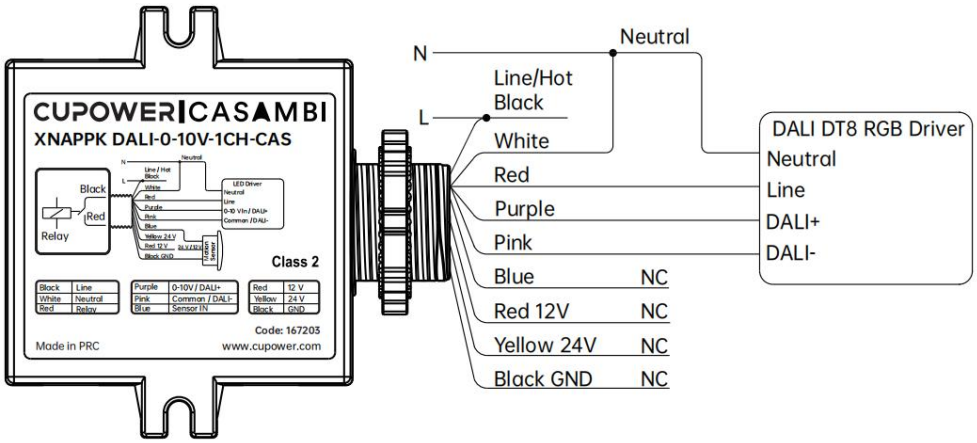

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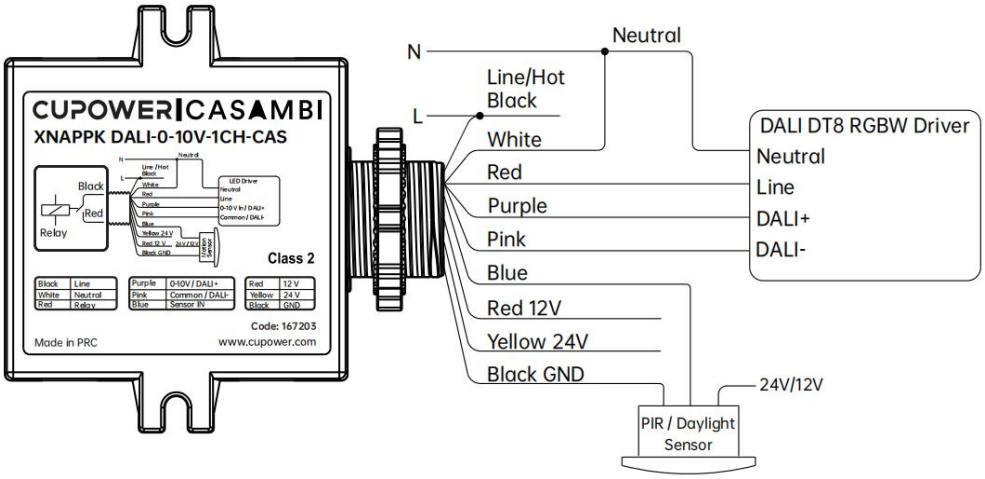

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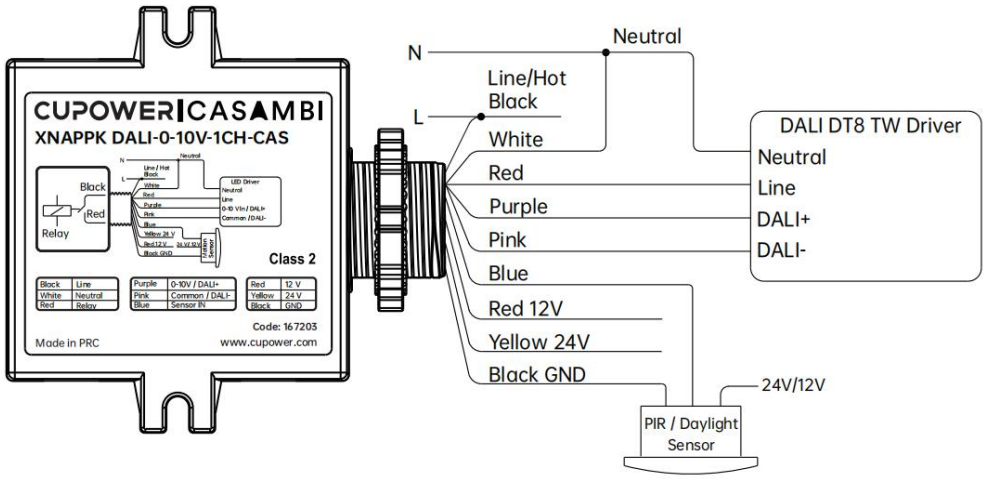

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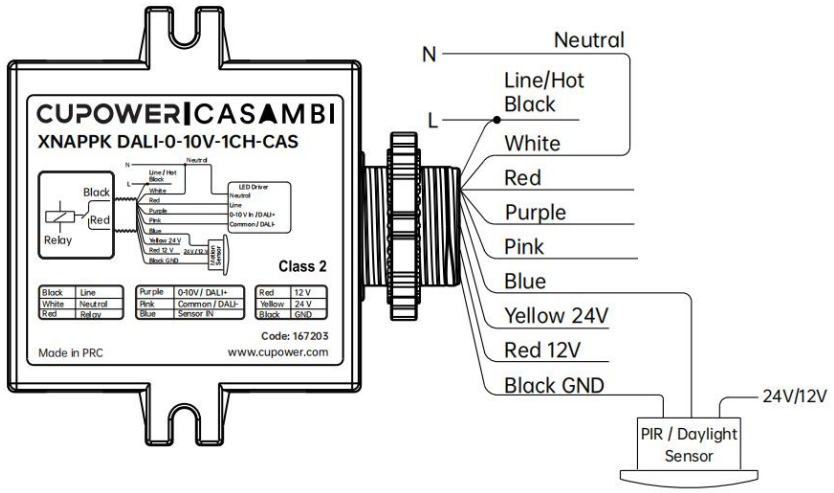

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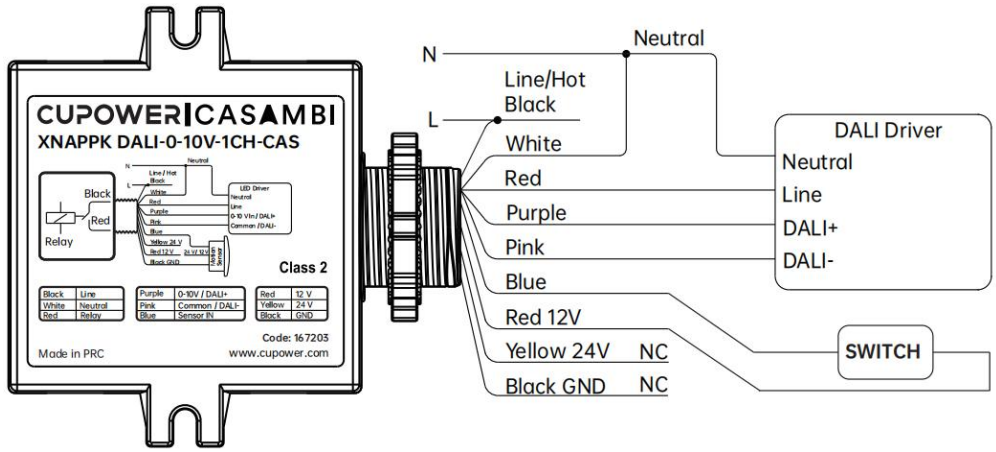

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Wire Specifications

Name	Function	Color	Gauge	Type	Length	Strip Length
L	Input hot	Black	12 AWG	Solid	6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
L1	Switched hot out	Red			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
N	Neutral	White	18 AWG		6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
0-10 V+/DALI+	Dimming level	Purple	22 AWG		6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
0-10 V-/DALI-	Low voltage common	Pink			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
Sensor	Sensor high & low level input	Blue			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
12V	Auxiliary source 12 V 0.1 A	Red			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
24V	Auxiliary source 24 V 0.1 A	Yellow			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)
GND	GND	Black			6.49 in (165 mm)	0.31...0.39 in (8...10 mm)

- All connections must be as short as possible to ensure good EMI performance.
- Incorrect wiring can damage the fixtures.
- The wire must be well protected against short circuit.

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