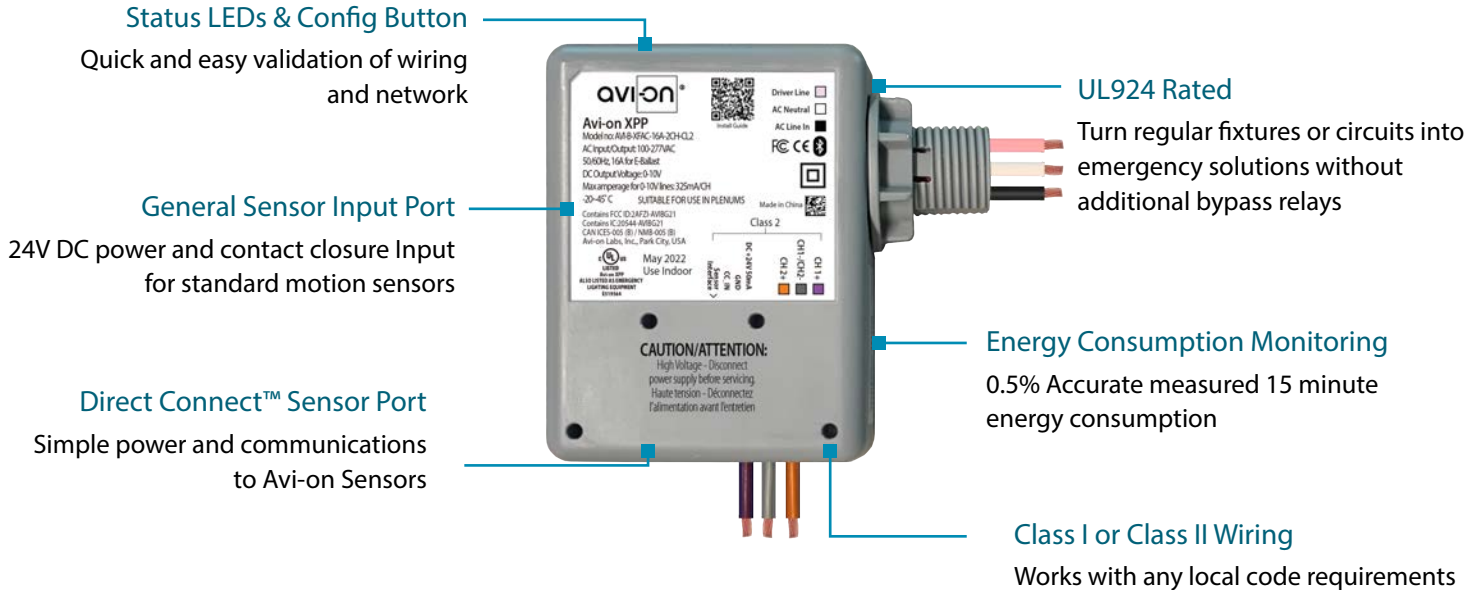


XPP Zone Controller

Versatile and Easy to Install Wireless Zone Control



Product Overview

Description

The XPP is a highly capable wireless zone controller with loads of additional features. 110-277V, 16A Lighting rated relay, high capacity 0-10V dimming, and multiple sensor integration options make this a single component solution for an entire zone based control solution.

Flexible Installation

The XPP is available in Class I or Class II wiring options. The XPP is fully networked and integrated with the Avi-on ecosystem and is interoperable with all other Avi-on sensors, wall stations, and fixture controllers.

Sensor Ready

The XPP is a sensor integration powerhouse with 2 different sensor inputs: Plug any Avi-on Direct Connect sensor for easy sensor integration, or use the general purpose sensor input with 24VDC power and contact input with third party sensors.

Energy Monitoring

The XPP includes true measured energy consumption readings every 15 minutes (>0.5% accuracy). Use the XPP to comply with top tier utility rebate programs and corporate energy management initiatives.

UL 924 Rated

The XPP is rated as an emergency lighting control appliance. Use to control zones or individual fixtures without adding bypass relays. Trigger emergency status for fixtures across an entire building for applications using Uninterruptible Power Supplies (UPS) or based on triggers from Building Control Systems (BCS). Order the -EM version for emergency mode to be pre configured, or enable/disable emergency mode for any XPP unit with Avi-on Pro.

Color Changing Capable

Available with 2 0-10V outputs to control color changing (CCT) lights

Project		Location/ Type	
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Ordering Information

Part Number	Supply Voltage	Channels	Configuration	Relay
AVI-XFAC-16A-1CH-CL1	100 - 277 VAC	Single	Class 1	16 Amp
AVI-XFAC-16A-1CH-CL2	100 - 277 VAC	Single	Class 2	16 Amp
AVI-XFAC-16A-1CH-CL1-EM	100 - 277 VAC	UL 924 Enabled	Class 1	16 Amp
AVI-XFAC-16A-1CH-CL2-EM	100 - 277 VAC	UL 924 Enabled	Class 2	16 Amp
AVI-XFAC-16A-2CH-CL2	100 - 277 VAC	Dual (CCT)	Class 2	16 Amp
AVI-XFAC-16A-ENERGY	XPP Without Control Capability - Energy Monitoring of Circuit Only			

To order please contact Avi-on sales at **(877) AVION-US**, (877) 284-6687 or prosales@avi-on.com for information on becoming an Avi-on partner and order details.

Specifications

Specifications	Min	Max	Unit
Supply Voltage	100	277	VAC
Operating Current Consumption (100 VAC / 277 VAC)	20 / 14	81 / 46	mA
Output Voltage 0-10V_OUT	0.02	10.35	V
Storage Temperature	-40/-40	+185/+85	°F/°C
Ambient Operating Temperature	-4/-20	+113/+45	°F/°C
Relay Current (Electronic Ballast/LED Driver)	-	16	A
Amperage for 0-10V lines		325	mA/CH

High Voltage Connections

Signal Name	Wire Color	Description
AC VOLTAGE (LINE)	BLACK (AC LINE)	AC 100-277VAC, #14
NEUTRAL	WHITE	AC neutral/common, #18
LINE DRIVER	PINK	Relay controlled AC output (switched line), #14

Low Voltage Connections (Isolated)

Signal Name	Wire Color	Description
0-10V_OUT[1]+	PURPLE	User controllable 0-10VDC (dimming), #18
0-10V_OUT[2]+	ORANGE	User controllable 0-10VDC (CCT), #18
0-10V_OUT[1&2]-	GRAY	Common dimming negative, #18
DC + 24V 50mA	Terminal	24 Volt DC output, #16-#24
GND -	Terminal	Common ground, #16-#24
CC_IN	Terminal	24 Volt Sensor input, #16-#24

Protection/Immunity (non-regulatory):

AC-input/user input and output connections: ESD
Level-4 immunity per IEC/EN 61000-4-2

Level	Contact Discharge	Air Discharge
4	±8 kV	±12 kV

AC-input: EFT and BUSRTS immunity IEC/EN 61000-4-4, Class3 or better (= $<2\text{kV}$)

AC-input: SURGE immunity IEC/EN 61000-4-5, Class3 or better (= $<2\text{kV}$)

Case Dimensions (Excluding Wires)

Part	Length	Width	Height
All	3.58 in (91 mm)	2.55 in (65 mm)	1.57 in (40 mm)

Certifications

Regulatory	Description
USA	FCC: 2AFZI-AV11010B
EU	E: 0700 Model: AV11010-B
Canada	IC: 20544-AV11010B
BQB	DID: D031801 Qualified Design ID: 86303
UL	UL 60730-1 UL 924 UL 2043

Dimensions and Wiring Diagrams

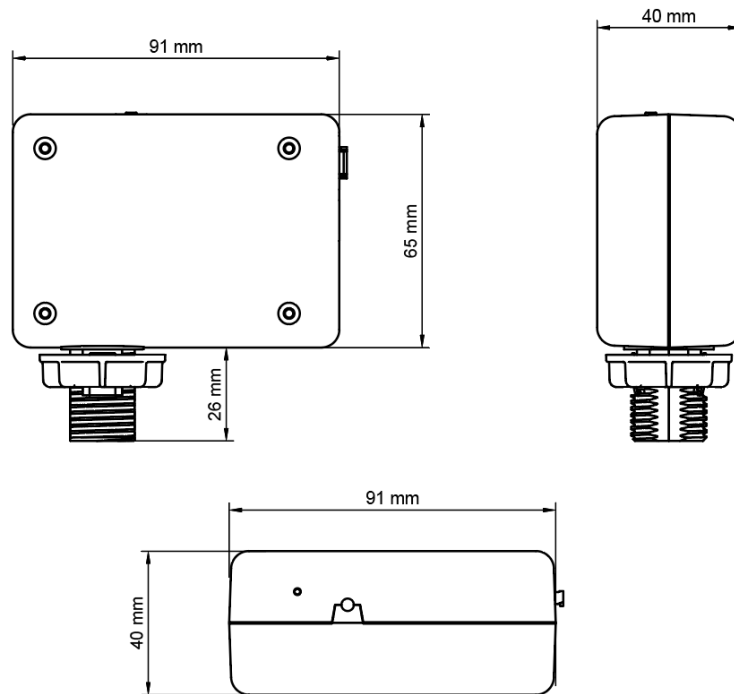


Figure 1. Dimensions

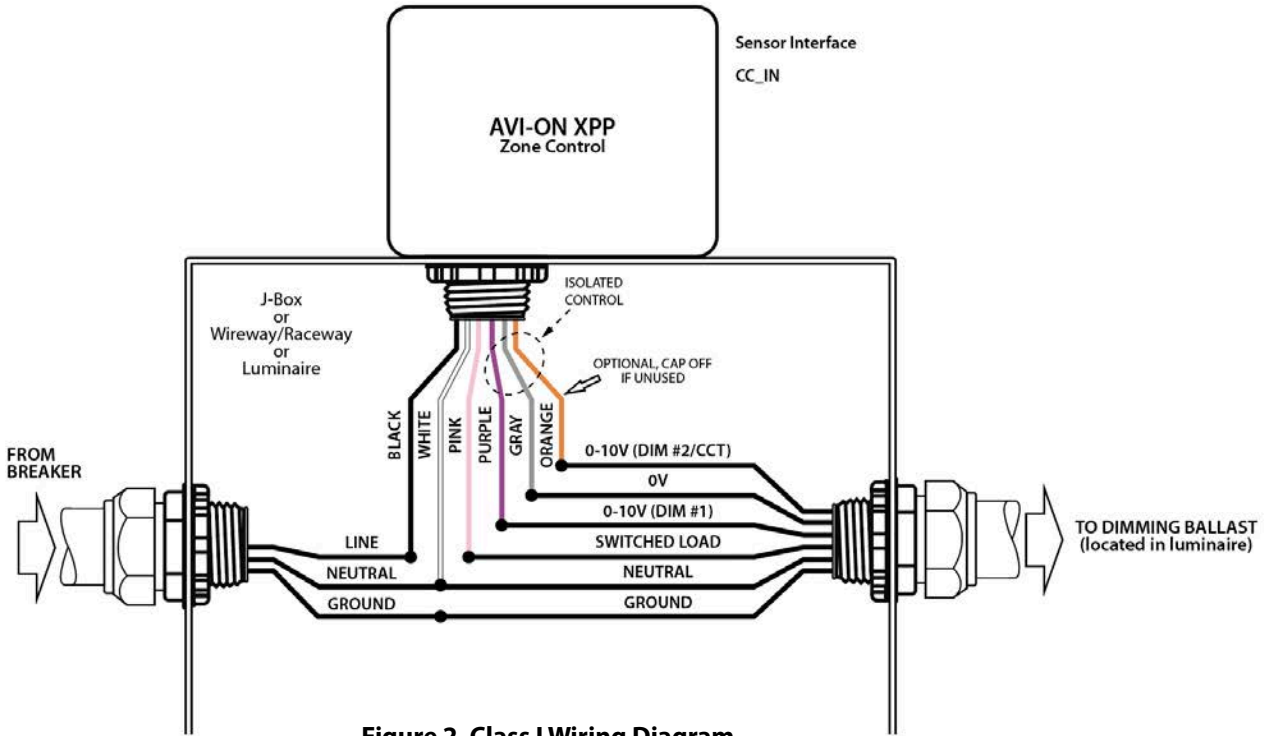


Figure 2. Class I Wiring Diagram

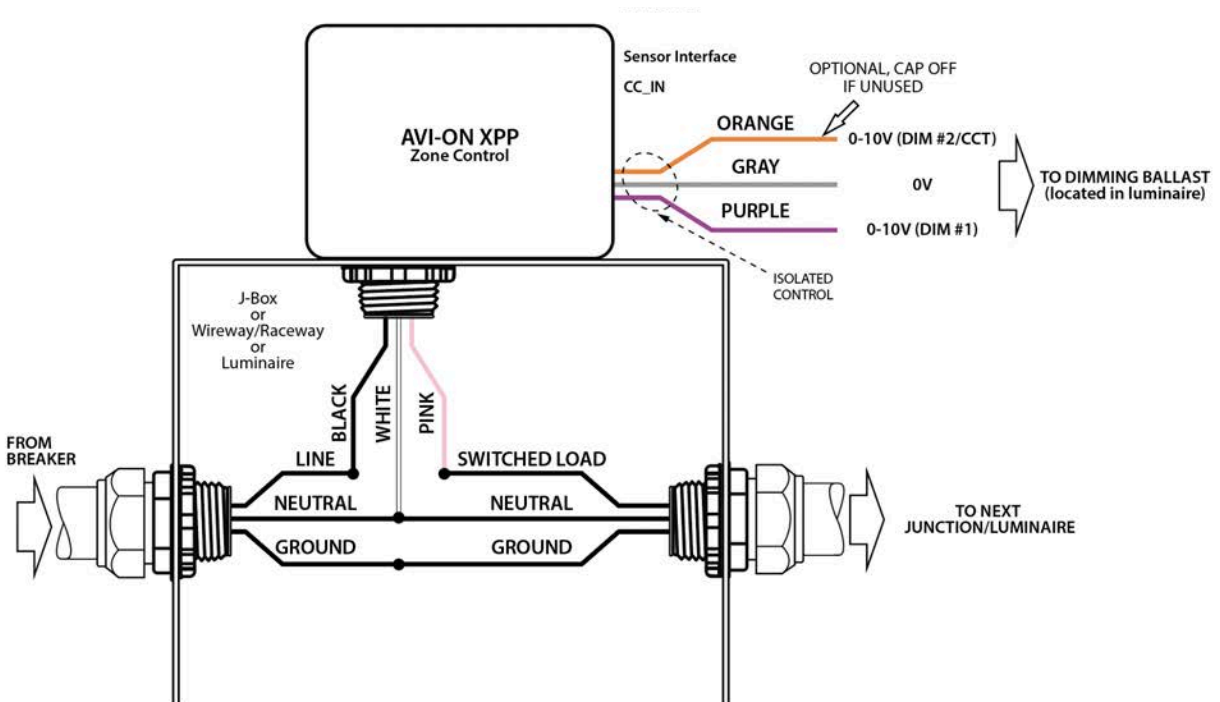


Figure 3. Class II Wiring Diagram

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