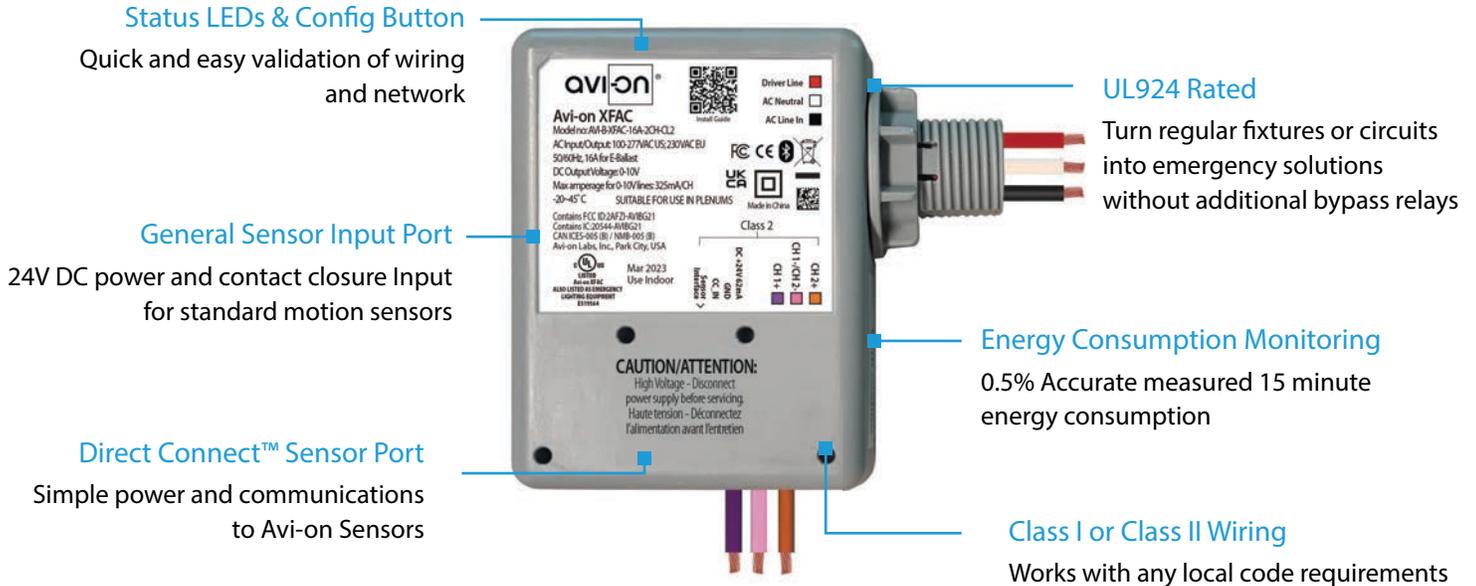




XFAC Zone Controller

Versatile and Easy to Install Wireless Zone Control



PRODUCT OVERVIEW

Description

The XFAC 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 XFAC is available in Class I or Class II wiring options. The XFAC 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 XFAC 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. Connect up to 3 Avi-on Wired PIR or Dual Tech sensors.

Energy Monitoring

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

UL 924 Rated

The XFAC 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).

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-B-XFAC-16A-1CH-CL1	100 - 277 VAC	Single	Class 1	16 Amp*
AVI-B-XFAC-16A-1CH-CL2	100 - 277 VAC	Single	Class 2	16 Amp*
AVI-B-XFAC-16A-CCT-CL1	100 - 277 VAC	Dual (CCT)	Class 1	16 Amp*
AVI-B-XFAC-16A-WC-CL1	100 - 277 VAC	Dual (WC)	Class 1	16 Amp*
AVI-B-XFAC-16A-CCT-CL2	100 - 277 VAC	Dual (CCT)	Class 2	16 Amp*
AVI-B-XFAC-16A-WC-CL2	100 - 277 VAC	Dual (WC)	Class 2	16 Amp*
AVI-B-XFAC-16A-ENERGY	XFAC Without Control Capability - Energy Monitoring of Circuit Only			

*Connect 16A of LED Lighting Devices (no further de-rating needed)

To order please contact Avi-on sales at **(877) AVION-US**, (877) 284-6687 or prosales@avi-on.com for order information or integration support.

SPECIFICATIONS

Specifications	Min	Max	Unit
Supply Voltage US	100	277	VAC
Supply Voltage EU	220	240	VAC
Operating Current Consumption (100 VAC / 277 VAC)	20 / 14	81 / 46	mA
Operating Current Consumption (230 VAC)	14	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	RED	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]-	PINK	Common dimming negative, #18
DC + 24V 62mA*	Terminal	24 Volt DC output, #16-#24, Max 62mA, max 3 Avi-on ICM or DUCM Wired Sensors
GND -	Terminal	Common ground, #16-#24
CC_IN	Terminal	24 Volt Sensor input, #16-#24

*Aux port current available with no AVI-DC-MW installed

Case Dimensions (Excluding Wires)

Part	Length	Width	Height
All	3.58" (91mm)	3.58" (91mm)	1.57" (40mm)

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

Certifications

Regulatory	Description
CE	EN IEC 6100-6-1:2019, EN IEC 6100-6-3:2021
FCC	FCC ID: 2AFZI-AVIBG21
IC	IC ID: 20544-AVIBG21
BQB	DID: D063032
UL	E519564, XACN/7, UL 2043, UL 924

See Safety & Certification Details Here:



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 ($= < 2\text{kV}$)

EU Regulatory

Over-voltage: Category III
Signal Indicator: LED ON Represents LOAD OFF
Glow-wire temperatures: 650°C /850°C
PCB Coating Type: Type 2

DIMENSIONS & WIRING DIAGRAMS

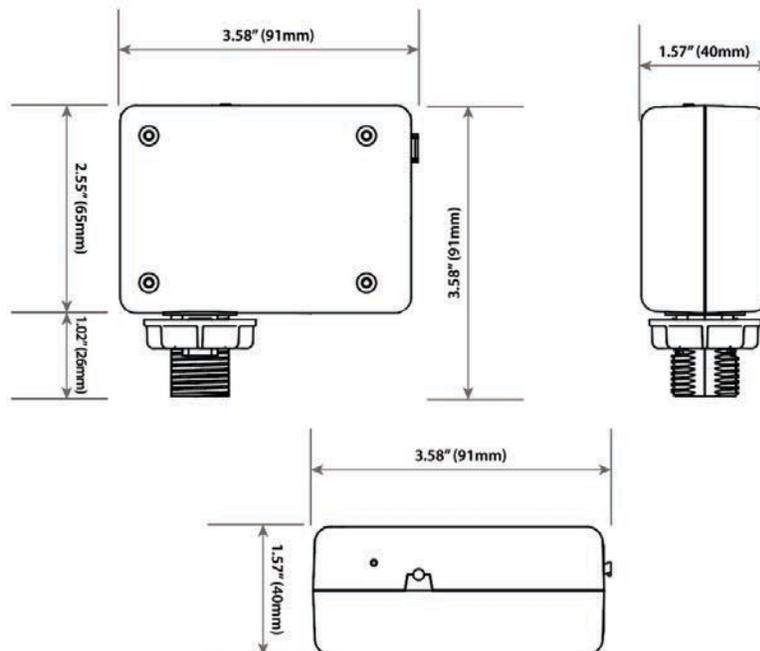


Figure 1. Dimensions

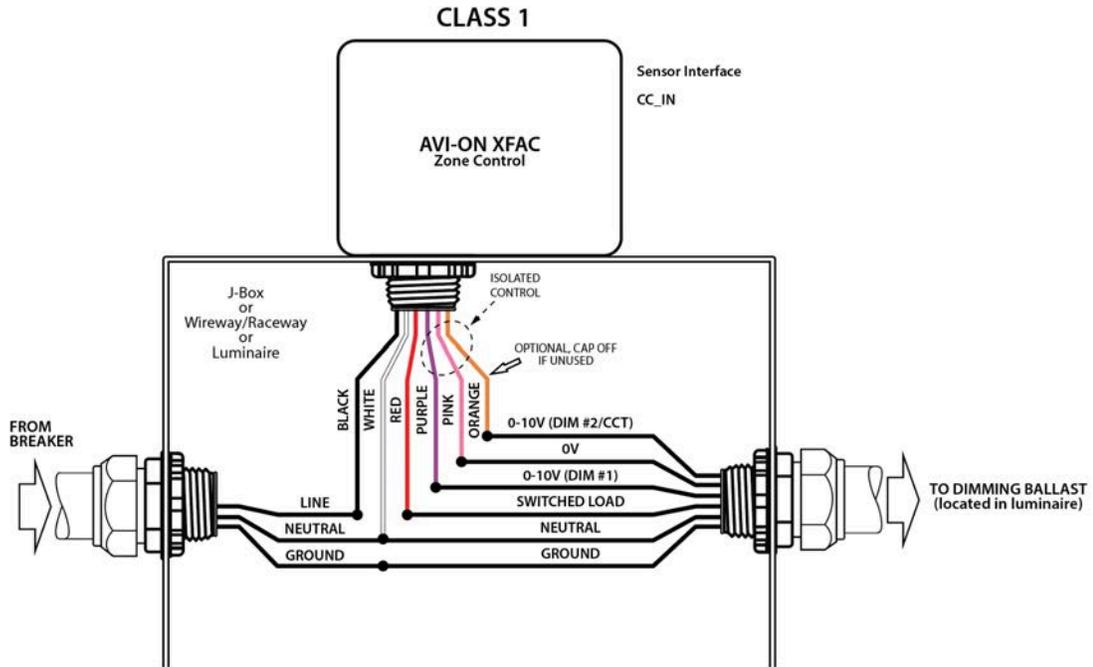


Figure 2. Class I Wiring Diagram

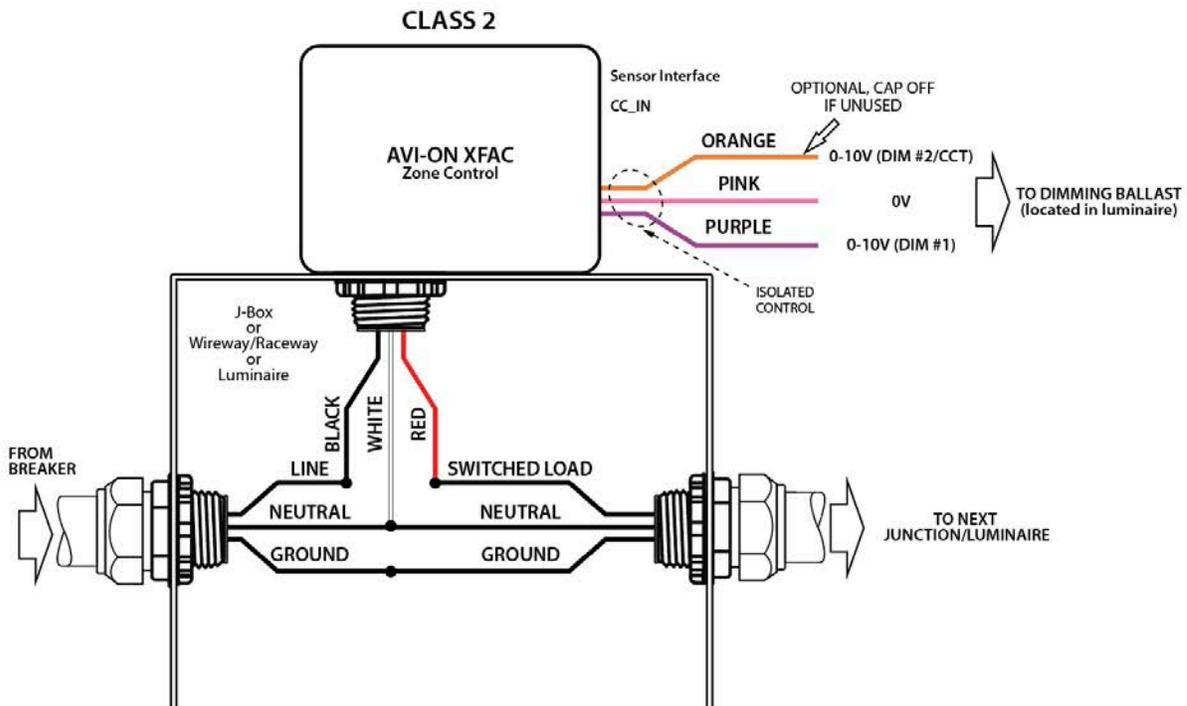


Figure 3. Class II Wiring Diagram

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