



Avi-on XPP

Input voltage:100-277VAC 50/60HZ
 AC Output Voltage: 100-277VAC 50/60Hz, 16A for E-Ballast
 DC Output Voltage: 0-10V
 Max Amperage for 0-10V Lines: 325mA/CH
 Operating temperature: -20~45°C
 CAN ICES-005 (B) / NMB-005 (B)
 Avi-on Labs, Inc., Park City, USA



Install Guide



Use Indoor
CU ONLY

For control of Electronic Ballast, CFLs, LED, and LED Lamps.
 Pour le contrôle du ballast électronique, des CFL, des LED et des lampes LED.
 For junction box mounting only.
 Connector provided for field connection.

Made in China

The XPP is suitable for use with air handling luminaires. NOTE: When used with air handling luminaires subject to heated air. ONLY connect the XPP to luminaires that are certified to UL 1598.

AVI-B-XFAC-16A-2CH-CL1	100-277VAC External Power Pack - 16A relay, Dual CH, Class 1
AVI-B-XFAC-16A-1CH-CL1	100-277VAC External Power Pack - 16A relay, Single CH, Class 1
AVI-B-XFAC-16A-1CH-CL2	100-277VAC External Power Pack - 16A relay, Single CH, Class 2
AVI-B-XFAC-16A-2CH-CL2	100-277VAC External Power Pack - 16A relay, Dual CH, Class 2

HVIN: AVI-B-XFAC-16A-1CH-CL1, AVI-B-XFAC-16A-2CH-CL1, AVI-B-XFAC-16A-1CH-CL2, AVI-B-XFAC-16A-2CH-CL2

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canada Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage;

- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet émetteur ne doit pas être Co-placé ou ne fonctionnant en même temps qu'aucune autre antenne ou émetteur. Cet équipement devrait être installé et actionné avec une distance minimum de 20 centimètres entre le radiateur et votre corps.

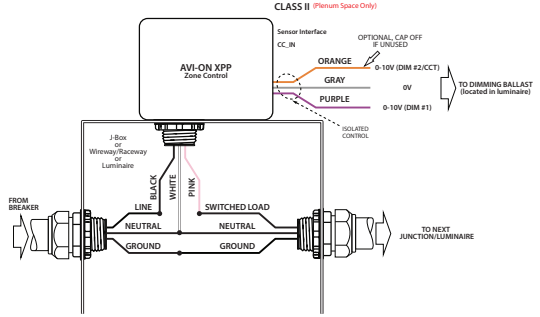
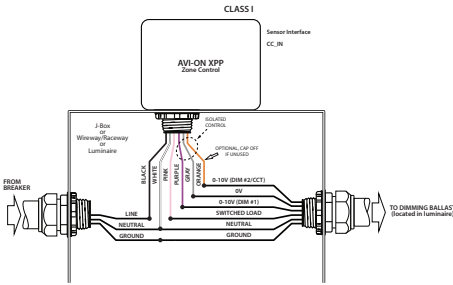
Note: Sensor interface can be connected to PIR sensor and light sensor. This product could be divided into two versions- general and high configuration: general configuration version will not be equipped with sensor subassembly, high configuration is to apply with sensor. Sensor subassembly is provided by franchiser.

Note: Sensor interface can be connected to Avi-on Direct Connect Sensors. This product could be divided into two versions- general and high configuration: general configuration will not be equipped with sensor subassembly, high configuration is equipped with sensor. Sensor subassembly is provided by franchiser. Note: XPP device comes equipped with a sensor connector for use with external sensors. Avi-on provides both Passive IP (AVI-DC-PIR) and Microwave (AVI-DC-MW) Sensors that can be used with or without ALS Capabilities. It is not necessary to connect a sensor for normal use of the XPP device



Installing your XPP

Follow the wiring diagrams below after mounting the XPP to the junction box of the circuit or fixture you would like to control:

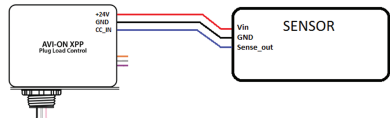


Installation Notes:

1. Power packs should be installed in accordance with state, local and national electrical codes and requirements.
2. Power packs are designed to attach to existing or new electrical enclosures with 1/2 inch knockouts.
3. Most applications require UL listed, 18-22 AWG, 3-conductor, Class 2 cable for low voltage wiring. For plenum return ceilings, use UL listed plenum-approved cables.

UL924: It is expected that all XPP dimming remain at 100% dim for 90 minutes after the respective XPPs was powered on. After 90 minutes have passed, full functionality will be available

XPP CC_IN used as 24V Sensor Interface

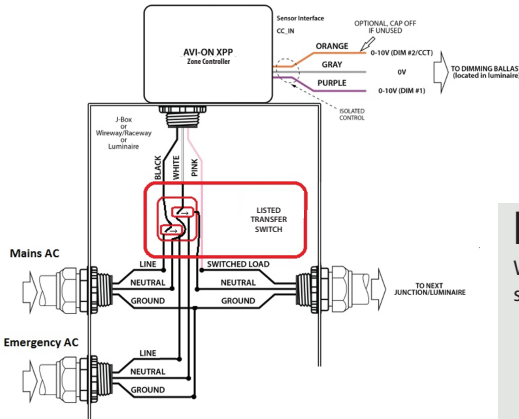


Splice Length

Insert wire in terminal to connect, press terminal button back to disconnect.



AWG18 - AWG24, Cu only, Sol. AWG16 - AWG22, Cu only, Str.



When Mains AC is running the Listed Transfer Switch will connect Mains AC to XPP, when Mains AC is lost Listed Transfer Switch senses loss of Mains and Switches XPP to Emergency AC Power, XPP Senses Loss of AC and Enables UL 924 Lighting (when configured).

IMPORTANT SAFEGUARDS

When using electrical equipment basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Do not use outdoors.

Do not mount near gas or electric heaters.

Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

Do not use this equipment for anything other than its intended use.

SAVE THESE INSTRUCTIONS