Sensor Input Module (SIM)

Integrate non Bluetooth® Sensors with the Avi-on Network

Status LEDs & Config Button
Quick and easy validation of wiring and network

Direct Connect™ Compatible
Use as a communications module for Direct Connect Sensors not wired to a fixture

Contact Closure Input
Detects external 12-24V Contact Closure to trigger a range of actions in the Avi-on Network

External Antenna
Flexible antenna options if mounted in metal enclosures

PRODUCT OVERVIEW

Avi-on's Sensor Input Module or SIM, is a multipurpose Avi-on network node that can integrate third party analog sensors as well as Avi-on Direct Connect Sensors into the Avi-on network without being tied to a fixture controller.

The SIM gives third party analog sensors, as well as inputs from building control, fire, security, and other systems a simple and low cost method of triggering lighting actions in an Avi-on network. The SIM is triggered by a contact closure (open or closed momentary). The resulting behavior is programmed in the Avi-on network and is similar to the features available to Direct Connect motion sensors.

The SIM is also Direct Connect compatible, and is an ideal choice to use with Avi-on PIR or Microwave Direct Connect sensors for applications that are remote from a lighting fixture or power pack like stand alone motion or daylight sensor placements.

Features

- Simple low, cost integration of third party sensors on the Avi-on network
- Direct Connect sensor compatible
- 12-24VDC power and contact closure inputs
- Small and compact size accommodates integration into multiple installation configurations
- Optional antenna configurations available for mounting in metal enclosures

ORDERING INFORMATION

Part Number	Description	Antenna	Input Voltage
AVI-B-SIM-12-24VDC-EA	Sensor Input Module, single channel	UFL-Wire	12 - 24 VDC

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.

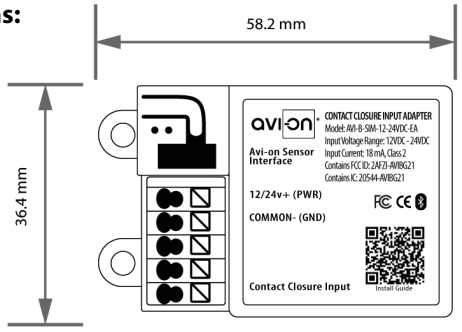
Project		**Location/ Type**	

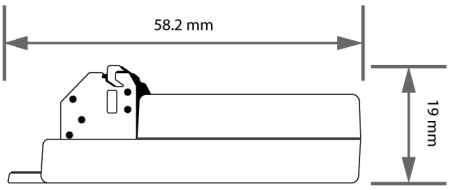
SPECIFICATIONS

Input Voltage:	12-24VDC
Power Consumption:	17mA
CC Input:	12-24VDC Non powered contact closure detection (momentary)
Direct Connect Input:	Compatible with all Avi-on Direct Connect™ Motion/Daylight sensors
Size:	2.30in x 1.43in x 0.75in (58.2mm x 36.4mm x 19mm)
Mounting:	Removable mounting tabs
Weight:	0.45 oz (16g)
Terminal Blocks:	22-16 AWG wires
Operating Temperature:	-22F to +158F (-30C to +70C)
Storage Temperature:	-40F to +185F (-40C to +85C)
Humidity Rating:	95% non-condensing
Radio Frequency:	2.4GHz
Wireless Standard:	BLE 4.2 with Mesh
Point to Point Range*:	80ft with obstructions and 350ft unobstructed
Security:	AES 128-bit encryption for device to device communication AES 256-bit encryption for device to cloud communication
Warranty:	5 years; 10 years optional
Regulatory:	FCC: 2AFZI-AVI1010 B IC: 20544-AVI1010 B BQB: D031801, DID: 86303

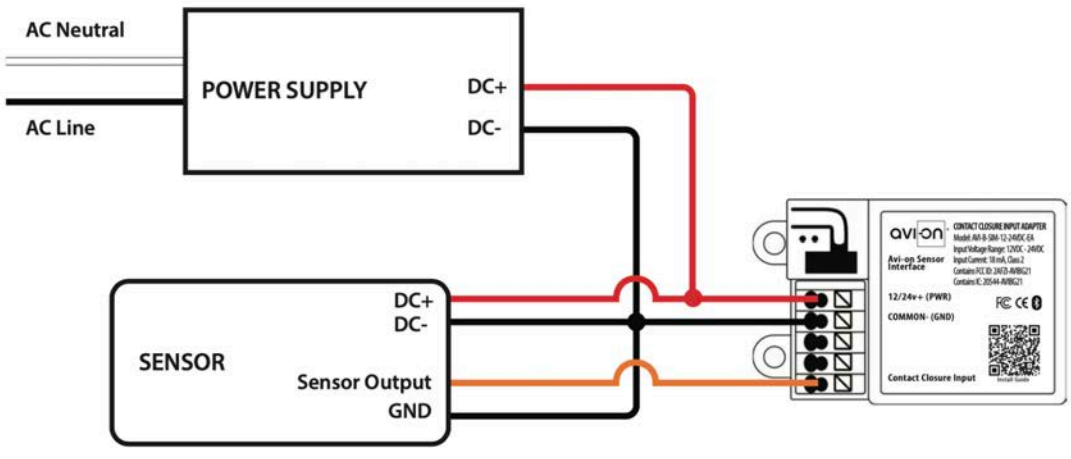
**When communicating through the mesh, range is essentially unlimited (5000ft+)*

Dimensions:





WIRING DIAGRAMS



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