

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-SIM-12-24VDC-EA	Sensor Input Module, single channel	UFL-Wire	12 - 24VDC

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.

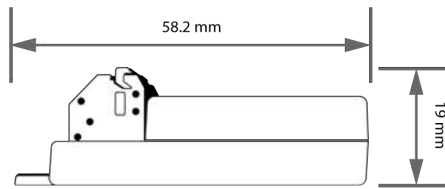
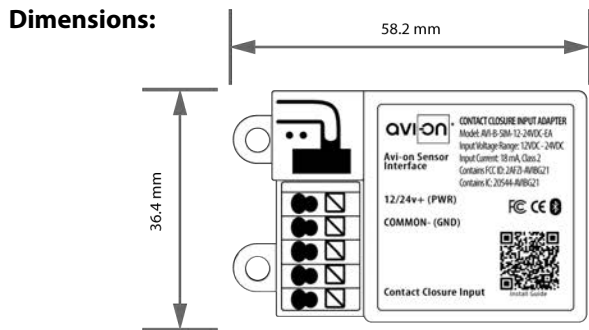
Project		Location/Type	
----------------	--	----------------------	--

Specifications

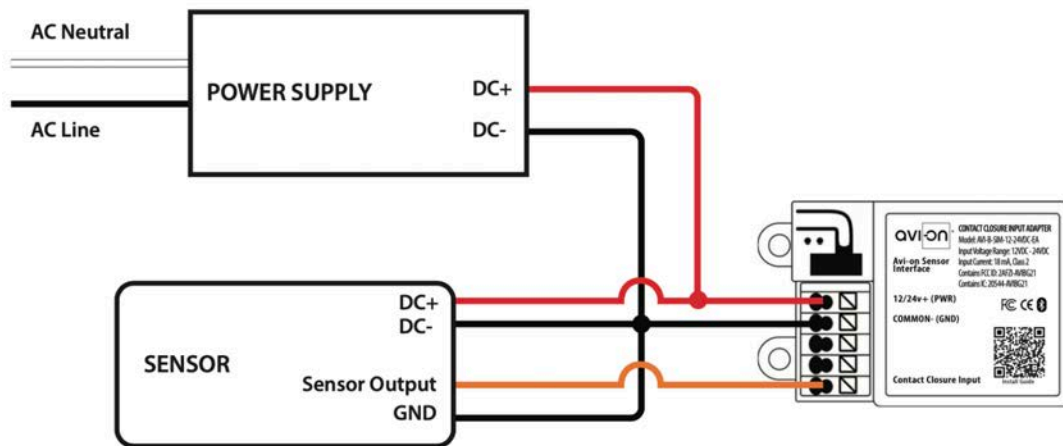
Input Voltage:	12-24VDC
Power Consumption:	17mA
CC Input:	12-24VDC Non powered contact closure detection (momentary)
Direct Connect Input:	Compatible with all Avi-on Direct Connect™ Motion/Daylight sensors
Size:	2.30in x 1.43in x 0.75in (58.2mm x 36.4mm x 19mm)
Mounting:	Removable mounting tabs
Weight:	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+)



Wiring Diagrams



ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. The information contained herein is believed to be reliable. Avi-on makes no warranty, representation or guarantee regarding the information contained herein, the suitability of the products for any particular purpose, or the continuing production of any product. Avi-on assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein, or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

