

Product Brief - ZBMS3 - Model #1019C



Infrared Motion, Temperature and Light Level Sensor

This versatile wireless indoor motion sensor detects and reports movement, sends a message to turn on a light when the surrounding light intensity is low, and reports temperature. It operates from two 3V CR123A batteries for up to 2 years or can be powered by a 12V DC power supply.

It can be bound to a CIE device as part of a security network. Use it to control any ZigBee® device capable of on/off control such as Smartenit or other load controllers in response to motion, with consideration of ambient light and temperature.

The device can be mounted on a wall anywhere in the range of the home automation network.



Benefits

- Remotely controls any ZigBee® device that uses the on/off cluster. This includes lights, pumps, pool heaters, electric vehicle chargers, air conditioners, etc.
- Can be bound easily to control devices even without the intermediary of a network controller.
- Uses ZigBee®, a wireless RF protocol that is rapidly becoming the standard for energy management. Enables appliances to become part of the smart ecosystems of tomorrow.
- Small size and wireless operation means easy retrofit ability and low installation cost. Use with ZigBee® appliances to eliminate copper conduits otherwise needed for switch wiring.
- Tested to FCC standards.
- ZigBee Home Automation certified.

SPECIFICATIONS:

Electrical & Environmental

Operating Voltage:	Two CR123A batteries (3V) or 12VDC power supply
Communication Range:	Up to 165 ft. indoors
Detection Coverage:	Radius 19.5', 130° angle
Temperature:	-10—50° degrees Centigrade
Humidity:	95% RH

Mechanical

Size:	3.15" L X 2.4" W X 1.4" H
Weight:	2.1Oz.
Mounting:	Swivel bracket screw mounted to wall. Recommended height 98"

Operation

ZigBee function:	ZigBee Pro End device
ZigBee Type:	IAS Zone, On/Off, Temp Sensor

ZigBee Profile:

ZBMS3 uses the Home Automation profile, enabling inter-operability with HA certified devices from other manufacturers.

The Smartenit Manufacturer ID issued by the ZigBee Alliance is 0x1075

Details for the HA clusters implemented can be found below:

Commands to these clusters follow the specifications of the ZCL document.

HA Profile (0x0104)

ZigBee Device ID: EP 1 - IAS Zone (0x0402, EP 2 - On/Off Switch (0x0000), EP 3 - Temperature Sensor (0x0302)

Cluster ID:	End Point	Cluster	Client/Server	Description
0x0000	1,2 & 3	Basic	Server	Attributes for determining basic information and setting and enabling device
0x0001	1,2, & 3	Power Configuration	Server	Attributes for determining more detailed information about a device's power source(s), and for configuring under/over voltage alarms
0x0003	1, 2 & 3	Identify	Server	Attributes and commands for putting a device into Identification mode (e.g. flashing a light)
0x0006	2	On/Off	Client	Attributes and commands for switching device. Commands: 0x00—Off 0x01—On 0x02—Toggle
0x0009	1 & 2	Alarms	Server	Attributes and commands for sending notifications and configuring alarm functionality
0x0402	3	Temperature Measurement	Server	Attributes and commands for temperature measurement
0x0500	1	IAS Zone	Server	Attributes to interface to the functionality of an IAS security zone device.