

IS3016-1/A-1 MOTION SENSOR

PIR Motion Sensor with/without Anti-Mask

Designed for mid to high-end commercial environments where Grade 3 (IS3016A-1) or Grade 2 (IS3016-1) systems may be required, the new Honeywell anti-mask IS3016 motion sensors deliver reliable protection and improved false alarm immunity through patented solutions.

The IS3016 sensors integrates a total of four patented solutions improving reliability and is quick and easy to install. In addition to this, the installer benefits from the design of the sensor which allows easy access to the connectors with quick plug-in feature. Furthermore the IS3016 motion sensors offer integrated EOL resistors and an enhanced walk test function, saving time on installation.



Honeywell Motion Sensors
IS3016A-1 (left), IS3016-1 (right)

FEATURES

- **Plug-in electronics**
– Designed for easy installation with an automatic plug-in connector
- **Integrated End-of-Line (EOL) resistors** – EOL resistors for alarm as well as tamper loop and anti-mask are already incorporated, saving installation time and reducing service calls
- **Flash light walk test** – Reduces installation time as the walk test can be enabled by simply pointing a flash light at the sensor
- **Mirror optics** – With mirror optics, this motion sensor uses the most reliable technology offering the best detection/false alarm ratio*
- **Highest security approval** – High quality performance sensor which meets the requirements of high risk environments (EN Grade 3, NF & A2P, CPNI approval for UK Government Use)
- **Infrared anti-mask technology** – Quickly detects intentional and accidental masks or blocks. The sensor sends a trouble signal whenever it encounters mask conditions. This significantly reduces the chance of any sensor security breaches*
- **Extensive detection coverage** – Extremely dense, wide and long detection range compared to similar products on the market providing superior coverage
- **Professional design** – The IS3016 series is designed for high level security installations with a unique professional look distinguishing it from low value sensors
- **Patented PIR signal analysis solution** – The sensor looks for a wide time frame and integrates the signal received prior to any alarm triggering decision
- **Patented look down solution** – The installer can change the settings with ease by simply switching the look down enabler on and off, offering a more efficient and reliable solution
- **Patented vibration solution** – Built-in shock feature. In the event of vibration, this component overrides the PIR signal
- **Patented mounting solution** – To fix the sensor to the wall, the installer simply inserts the screw in the predefined location where it will be automatically held in place making installation quicker and easier.

* Available on IS3016A-1

IS3016-1/A-1 – PIR MOTION SENSOR

TABLE 1. SPECIFICATIONS

Characteristic	Parameter
Detection type	PIR
Range	16 m × 22 m
EOL resistors (IS3016-1)	Alarm & tamper : 1K, 2.2K, 4.7K & 5.6K ; default = 1K
EOL resistors (IS3016A-1)	Anti-Mask: 2.2K, 3K
Detection zones (IS3016-1)	54 long range, 20 intermediate, 18 lower, 2 look down
Detection zones (IS3016A-1)	36 long range, 10 intermediate, 12 lower, 2 look down
Walk test	20 s
RFI immunity	15 V/m, 80 MHz to 2.7 GHz
Mounting height	2.3 m optimal
Power requirements	9 Vdc to 15 Vdc
Consumption	10 mA typical, 15 mA maximum, 12 Vdc; AC Ripple: 3 V peak-to-peak at nominal 12 Vdc
Alarm relay	Energized form A; 30 mA, 25 Vdc, 22 Ohms resistance maximum. Alarm relay duration: 3 seconds
Trouble relay	Energized Form B; (NC) 30 mA, 25 Vdc; 22 Ohms resistance maximum
Tamper	Cover & wall; (NC with cover installed) Form A; 30 mA, 25 Vdc; magnetic field
Operating temperature	-10°C to 55°C
Temperature compensation	Advanced dual slope
Relative humidity	5 % to 95 %, non-condensing
PIR white light immunity	10,000 Lux typical
Fluorescent light filter	50 Hz/60 Hz
Dimensions (IS3016-1)	9,85 cm H × 5,7 cm W × 4,4 cm D
Dimensions (IS3016A-1)	11,86 cm H × 6,73 cm W × 4,64 cm D
Weight (IS3016-1)	85.3 g (net weight)
Weight (IS3016A-1)	27.4 g (net weight)
Approval (IS3016-1)	EN50131-2-4 Grade 2 Class II, NF&A2P two shields
Approval (IS3016A-1)	EN50131-2-4 Grade 3 Class II, NF&A2P three shields

Inside View (IS3016-1)



Inside View (IS3016A-1)



TABLE 2. ORDERING INFORMATION

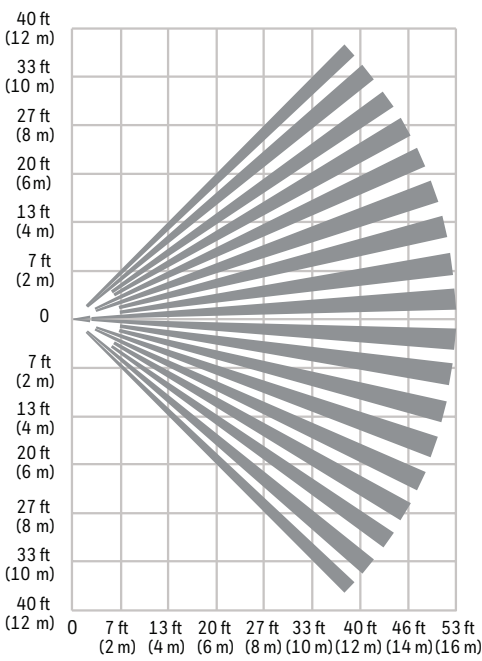
Part Number	Description
IS3016-1	PIR Motion Sensor 16 m
IS3016A-1	PIR Motion Sensor 16 m, Anti-Mask
SMB10	White swivel mount bracket (5 pack)
SMB10C	White ceiling mount bracket (5 pack)
SMB10T	Tampered white swivel mount bracket (5 pack)

IS3016-1/A-1 - MOTION SENSOR

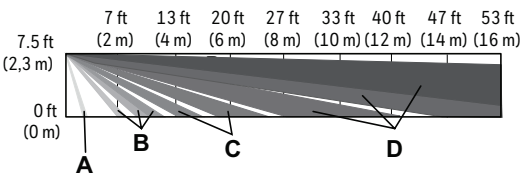
DETECTION PATTERNS

IS3016-1/A-1

Top View



Side View



For More Information

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