

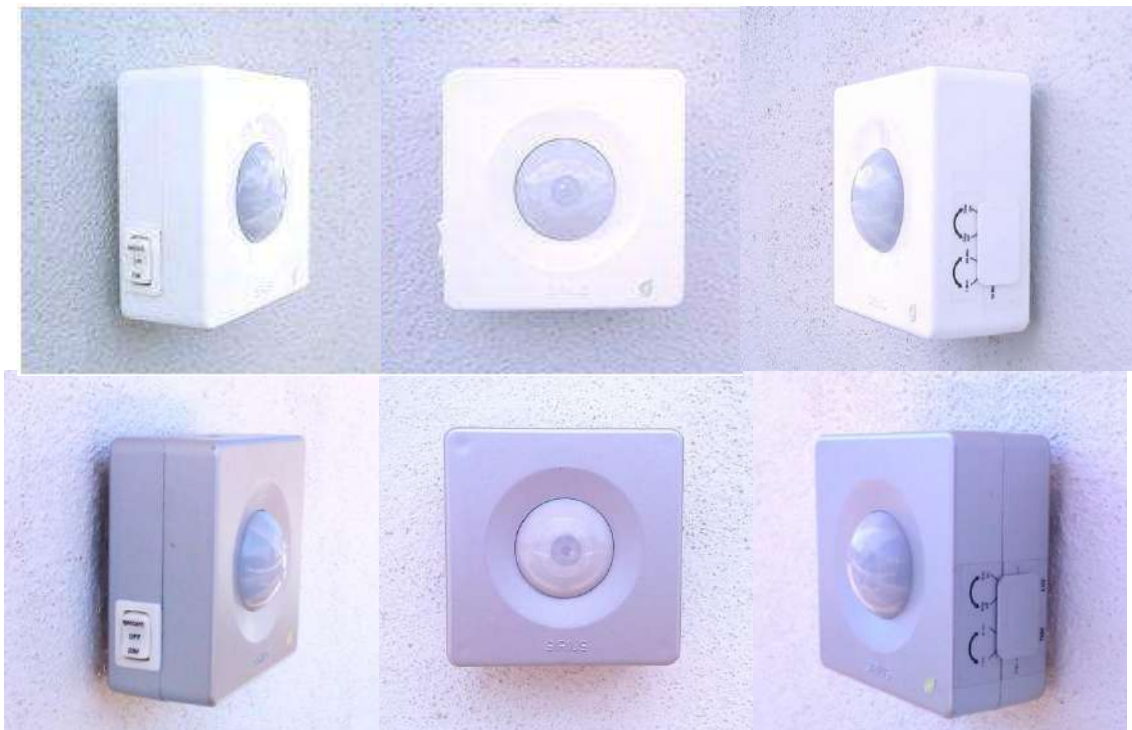
SIRIUS

PIR Occupancy Sensor and Motion Sensor Switches

Product Brochure

Models: R1012W1, R1012C1, R1012W2, R1012C2
Titanium series

360° – 180° preset PIR Occupancy sensors



SIRIUS R1012 series occupancy sensors are PIR based occupancy sensors used for the automatic switching of electrical appliances of up to 1000VA. The sensors can be easily integrated with any existing power device. The enclosures are manufactured at an ISO 9001:2008 manufacturing facility and are a result of joint collaboration between Indian and US engineers.

Models:

Model No [#]	Timing Control	Noise immune sensor	Switch with ON/Auto/Off mode	LUX control
R1012W1	YES	YES	YES	YES
R1012C1*	YES	YES	NO	YES
R1012W2 [%]	YES	YES	YES	NO
R1012C2 ^{*,%}	YES	YES	NO	NO

* The ceiling mounted models R1012C1 and R1012C2 work under full Auto switching mode. However, it can be easily integrated with a regular SPDT ON/Off side wall switch to work under Auto/Off mode. Please refer Technical Bulletin for wiring info.

All models have the same dimensions and physical appearance except for the side covering cap in models R1012C1 and R1012C2 at the place of the Mode select switch which is included in the R1012W1 and R1012W2 models

% Models R1012W2 and R1012C2 are non-standard models and are manufactured only on special request. Please note that models R1012W1 and R1012C1 can perform the same functions of R1012W2 and R1012C2 as well.

Technical Specification:

Dimension: Approx 80mm x 80mm x 36mm

Power: AC 230V ± 20V, 50~60Hz

AC 110V, 60Hz (As required by customer)

Loading: Max 1000 VA or Maximum of 3 fixtures whichever is smaller for built in relay. For higher power loading an external relay or contactor can be connected.

Detection Zone: 360^o or 180^o adjustable

Detection Distance: Upto 6m or 20feet

Time adjust: (40s±2s to 45mins±1min adjustable) or (4s±1s to 4.5mins±1min adjustable) as required by customer

Photocell/Daylight auto ON/Off: Sunlight intensity sensing to prevent switching ON of lights when there is sufficient daylight. Available only in models R1012W1 and R1012C1

Self power consumption: 1Watt ±0.2 during active
0.6Watt ±0.2 during idle at
230V, 50Hz and 27^o C

Humidity: < 94% RH non-condensing; 30^oC maximum dewpoint

Operating modes: “Auto/OFF/Always ON” in Models R1012W1 and R1012W2; “Auto mode” only in Models R1012C1 and R1012C2 with option to incorporate “OFF/Auto” mode

Sensor Type: Infrared sensor with built in interference suppression

Sensitivity control: Available across all models

Signal re-triggering mode select: Available across all models

High Voltage and Current protection: 5A fuse and Varistor

Enclosure: Manufactured at an ISO 9001:2008 facility

Material: HDPE and ABS

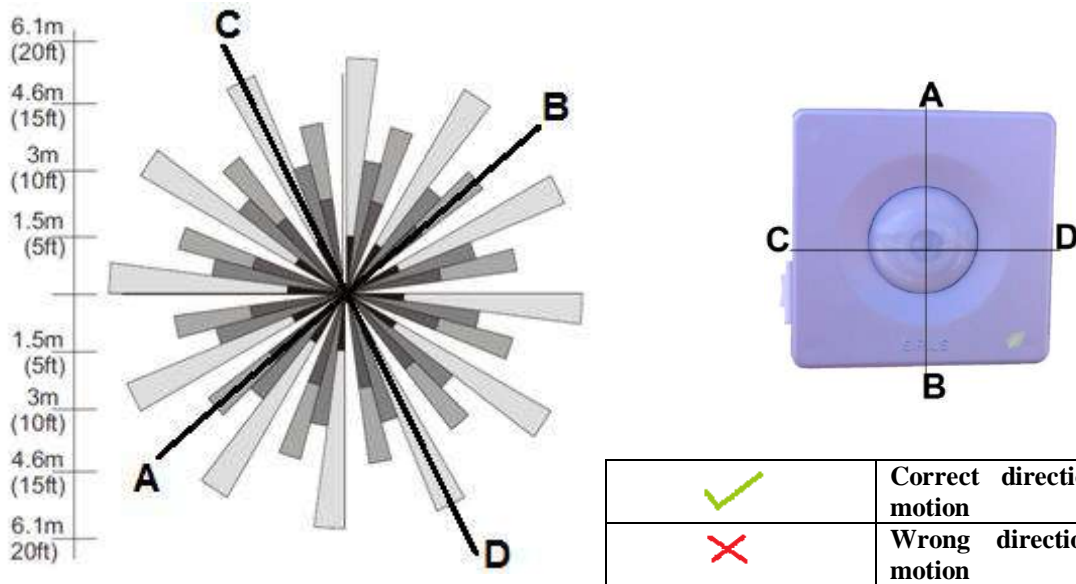
Colours: a) Blissful white b) Titanium Brilliant

Special Instructions:

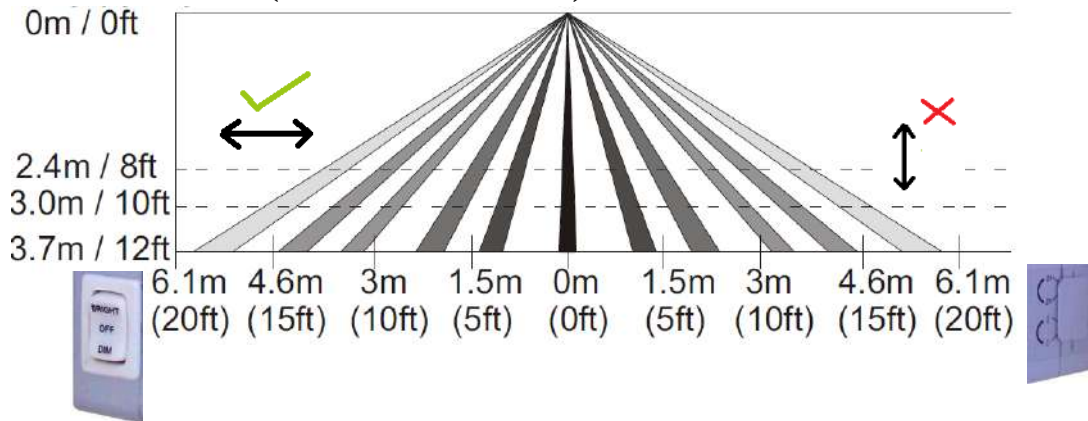
1. Do not face sensor directly towards sunlight or direct waterfronts.
2. Do not face sensor towards air vents or air conditioners as this may cause false activation

Detection Pattern:

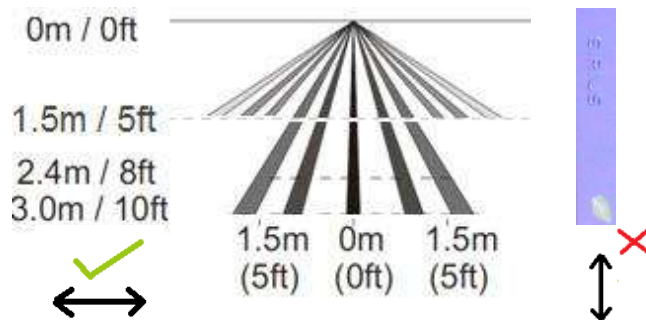
Top View



Side View 1 (Section C to D)



Side View 2 (Section A to B)



Note: The detection zone can be narrowed by covering the front lens with an opaque white tape

Mounting Options:



Surface mounting type



Recessed mounting type

Models:

R1012C1



R1012W1



Ordering:

Models:

- a) R1012W1
- b) R1012C1
- c) R1012W2
- d) R1012C2

Colour Options:









- a) Blissful white
- b) Titanium brilliant

Mounting type:

- a) Surface mounting
- b) Recessed / Flush mounting

Applications Chart

Ratings Key: A = Best sensor for application, B = Better sensor for application, C = Good sensor for application

								
APPLICATIONS	R1012W1 - Surface mount	R1012W1 - Recessed mount	R1012W2 - Surface mount	R1012W2 - Recessed mount	R1012C1 - Surface mount	R1012C1 - Recessed mount	R1012C2 - Surface mount	R1012C2 - Recessed mount
Laboratories and Clean rooms	A	A	A	A	A	A	A	A
Corridors	A	B	C	C	A	A	C	C
Lobby and Hallway	B	C	C	C	A	A	C	C
Restrooms	A	B	C	C	A	A	C	C
Classrooms	A	C	B	C	C	C	C	C
Manufacturing units	A	B	A	B	B	B	C	C
Cafeteria	A	C	C	C	B	B	C	C
Closet utility	C	C	C	C	B	B	A	A
Server and computer rooms	A	B	B	B	A	A	C	C
Conference room								
Copy room	A	B	C	C	B	B	C	C
Cubicle								
Day care center	A	C	B	C	B	B		
File room	A	C	B	C	B	B		
Office / Cubicles								
Open area	A	A	C	C	A	A	C	C
Parking garage	C	C	C	C	A	A	C	C
Refrigerated storage	A	C	B	B	A	A	C	C
Stairwell	A	C	C	C	A	A	C	C
Lifts / Elevators	A	C	B	C	C	C	C	C
Warehouse aisles	A	C	C	C	A	A	C	C
Warehouse open	B	C	C	C	B	A	C	C



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