PIR Sensor for Ceiling

BSQ-PIR360

Passive infrared detector (PIR)
Motion detector by e.g. a person
Indoor applications
Operating distance: 2.5 m to 4.0 m (depending on dipswitch settings)
Operating angle: 360°
Channel coding by BGP-COD-BAT
Supplied by smart-house
Ceiling-mount or in PL55



GENERAL SPECIFICATIONS

Channel coding	By BGP-COD-BAT and special cable: GAP-TPH-CAB
No. of channels	2
Enclosure	Plastic housing
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	0° to +50°C (+32° to +122°F)
Storage temperature	-20° to +70°C (-4° to +158°F)
Humidity (non condensing)	20 - 80%
Weight	25 g
Dimensions	
OPUS (WxHxD)	ø 90 x 40 mm
Connection	Screw terminals
Max. wire in terminals	4 x 0.75 mm²
Terminal D+.	Signal
Terminal D-	GND
Power-on delay	Typ. 10 s

INPUT/OUTPUT SPECIFICATIONS

Inputs	PIR on I/O 1
Lens	
Angle	360°
Operating distance	Depending on settings of DIP-switch 1 and 2
Wave length	7 to 14 µm
Input detection speed	5 pulses/s
Output	
LED output	Red LED on I/O 5 If DIP-switch 3 is off, the LED is off

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	< 8.0 mA

TYPE SELECTION

Supply	***Ordering no.***
By smart-house	BSQ-PIR360

MODE OF OPERATION

BSQ-PIR360 is a 1-channel monostable transmitter with a PIR detector, which operates by means of a dual-element detector.

The transmitter is activated if the temperature suddenly changes (most often it will be heat radiation from a person) in relation to the background radiation. Consequently, the transmitter can be used for ON/OFF switching of lighting, air conditioning etc. If a person moves within a detection zone, BSQ-PIR360 is activated.
The PIR detector is designed for ceiling-mount or in a PL55 ceiling box if springer removes.

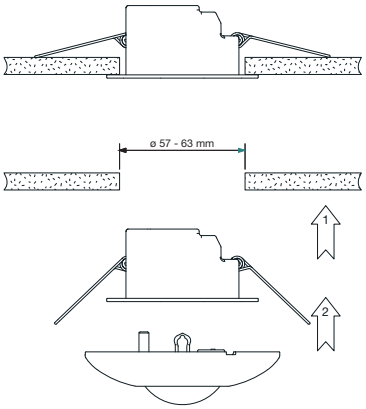
Slow movements between zones resulting in a detection speed of less than 0.5 pulses/sec will not be detected. Nor will rapid movements resulting in a detection speed of more than 5 pulses/sec be detected. As BSQ-PIR360 is a passive device, several detectors can be placed in the same room without interfering with each other.

Walk test: The LED responds to any channel coded on I/O 5.
If the LED is coded to the same channel as the PIR input on I/O 1, the transmission follows the LED. The LED turns ON when the PIR is activated.

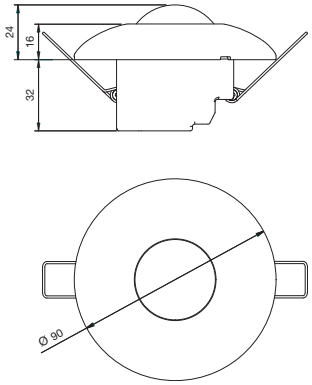
The module should not be installed as follows:
a) Outdoors.
b) In places exposed either to sunlight or to motor vehicle headlights pointing directly at the sensor.
c) In places exposed to direct air flow from a heater or air conditioner.
d) In places where rapid temperature changes occur.
e) In places exposed to severe vibration.
f) Close to glass or other objects which might reflect the infrared radiation.
g) For burglar detection.

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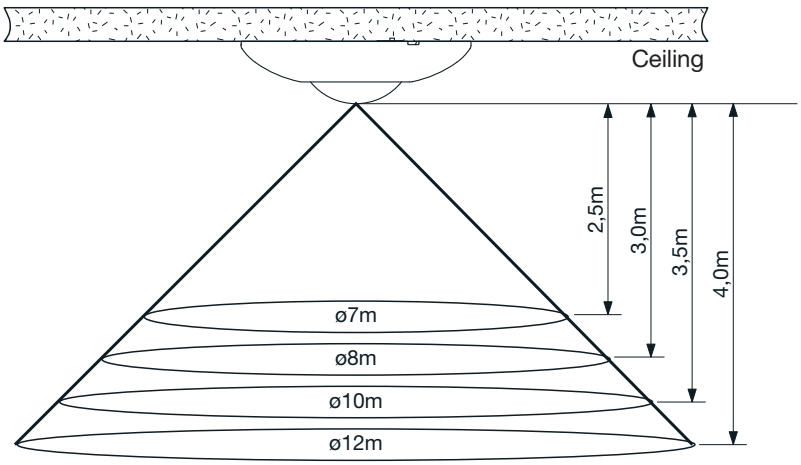
MOUNTING



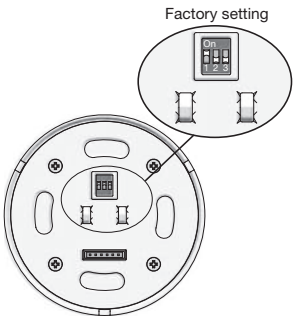
DIMENSIONS



OPERATING DISTANCE RELATED TO DIP-SWITCH SETTINGS



DIP-SWITCH SETTINGS



On 1 2 3 Minimum sensitivity

On 1 2 3 Low sensitivity

On 1 2 3 High sensitivity

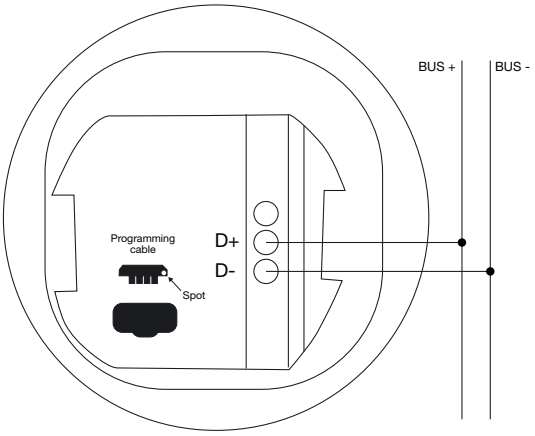
On 1 2 3 Maximum sensitivity

On 1 2 3 LED Off

On 1 2 3 LED On

= On = OFF

WIRRING DIAGRAM



ACCESSORIES

Programming cable to BGP-COD-BAT GAP-TPH-CAB