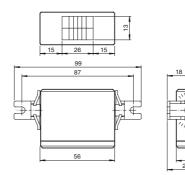


Dimensions

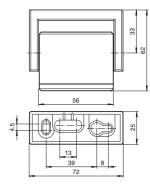
Mounting dimensions with mounting bracket

Mounting dimensions for swivel



g

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CE

Model Number

PIR20/31 sw

Passive infrared motion sensor with terminal compartment

Features

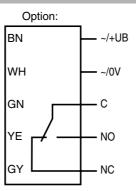
- Door activation sensor •
- One of the smallest sensors for per-٠ son detection
- Reliable detection through change in • the thermal image from +/- 0.5 °C
- Accurate and seamless field adjust-• ment through aperture and zoom function
- Function only in case of movement ٠

Product information

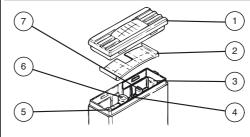
The PIR20 passive infrared scanner enables problem-free detection of people. It detects movement as soon as the temperature differential between an object and its environment is greater than $\pm\,0.5^\circ\text{C}.$ The detection range can be accurately set by means of zoom adjustment and lens apertures.

The PIR20 detects people approaching as a door.

Electrical connection



Indicators/operating means



Γ	1	Housing cover
	2	Lens cover
	3	Zooming scale
	4	Zooming screw
	5	Sensitivity adjuster
	6	LED
	7	Switch active/passive

Subject to modifications without notice Pepperl+Fuchs Group

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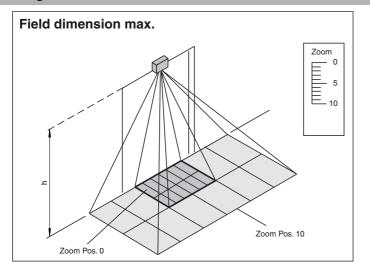
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1

Technical data			Typical a
General specifications			Detection
Effective detection range		max. 12 m (frontal)	Opening i automatic
Detection field		max. 1800 mm x 2600 mm for a mounting height of 2500 mm	
Indicators/operating means			Elevator e
Operating display		LED green	
Function display		LED red: illuminates upon detection	
Controls		Zoom screw for adjusting the detection field , sensitivity adjust- ment , changeover switch, active/passive	Detection
Electrical specifications			
Operating voltage U _B		12 24 V AC / 12 30 V DC	
No-load supply current I ₀		approx. 15 mA	
Power consumption P ₀		approx. 350 mW at 24 V	
Output			
Switching type		Output active/passive, programmable	
Signal output		Relay, 1 alternator	
Switching voltage		48 V AC/DC	
Switching current		1 A	
Switching power		max. 30 W / 60 VA	
De-energized delay	t _{off}	0.5 s (preset)	
Ambient conditions			
Ambient temperature		-20 60 °C (-4 140 °F)	
Mechanical specifications			
Mounting height		recommended: max. 3.5 m	
Protection degree		IP52	
Connection		screw terminals, removable	
Material		,	
Housing		black ABS	
Optical face		plastic lens	Accesso
Mass		approx. 40 g	Wettersch
Compliance with standards a ves	and direct	-	Weather he
Standard conformity			Flush Mo
Standards		89/336 EWG	Flush-mou
Approvals and certificates			PIR20
CE conformity		yes	AIR20/PIF

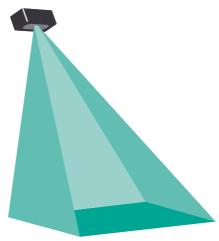
Curves/Diagrams



applications

- on of movement by people
- impulse sensor for people at ic doors
- entrance area monitoring

n area



ories

hutzhaube PIR 20 hood for series PIR20

ounting PIR20

unted frame for sensors in the

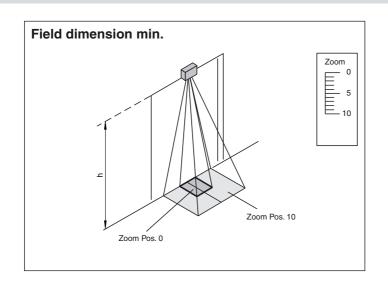
AIR20/PIR20 Weather Cap

All-weather hood for AIR20 and PIR20 series sensors

Other suitable accessories can be found at www.pepperl-fuchs.com

2





Operating principle

The passive infrared scanner functions differently to most optical sensors — as a passive device. A passive device is not equipped with a transmitter element, but does feature a receiver element. The receiver reacts to heat emission in the form of infrared light transmitted by the human body. This infrared light is detected by a multi-part lens system (fresnel lens), which means that the intended detection range can be fully covered by the receiver. Within 20 seconds of switching on the sensor, the receiver measures and stores the infrared image identified. A switching signal is transmitted when two conditions have been met:

1. The temperature of the object to be detected deviates from the ambient temperature by at least $\pm 0.5^{\circ}$ C.

2. The object to be detected moves at a speed of at least 100 mm/sec.



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