



Model Number

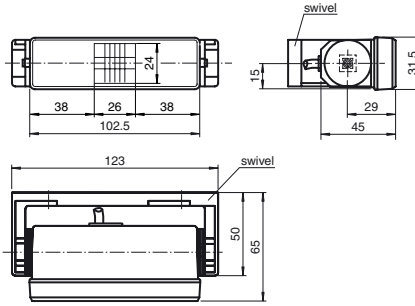
PIR30/32sw

Passive infrared scanner
with fixed cable

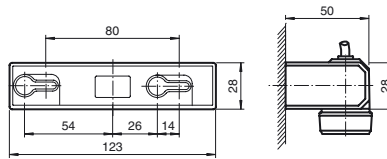
Features

- Door activation sensor
- One of the smallest sensors for person detection
- Precise range adjustment possible using 18 Fresnel lenses and front sliding insert
- Individual adjustment of 18 detection fields
- Switches at a temperature difference of +/- 0.5 °C to the background

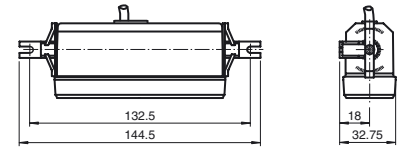
Dimensions



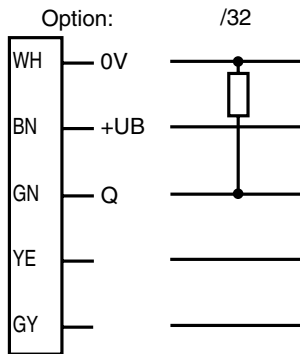
Mounting dimensions for swivel



Mounting dimensions with mounting bracket



Electrical connection



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Technical data

General specifications

Effective detection range	max. 12 m
Detection field	max. 1800 mm x 2600 mm for a mounting height of 2500 mm
Approvals	CE
Marking	CE approval

Indicators/operating means

Operating display	LED green
Function display	LED red: illuminates upon detection
Controls	Light/Dark switch, sensitivity adjuster

Electrical specifications

Operating voltage	U_B	12 ... 30 V DC
No-load supply current	I_0	approx. 25 mA

Output

Switching type	Normally open/normally closed, switchable	
Signal output	1 PNP, short-circuit protected, open collector	
Switching voltage	≤ 40 V DC	
Switching current	≤ 200 mA	
De-energized delay	t_{off}	0.5 s

Standard conformity

Standards	EN 60947-5-2
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Ambient conditions

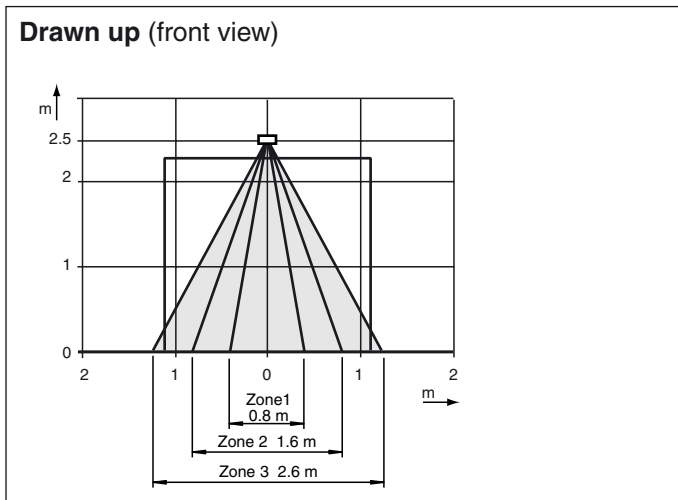
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
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Mechanical specifications

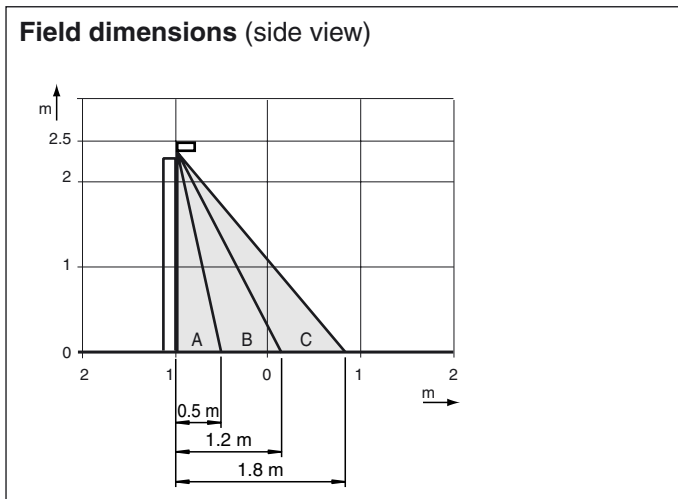
Mounting height	max. 5 m
Protection degree	IP52
Connection	5 m fixed cable
Material	
Housing	black ABS
Optical face	plastic lens
Mass	approx. 280 g

Curves/Diagrams

Drawn up (front view)



Field dimensions (side view)



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Function description

Function principal

PIR Motion Detectors do not emit any rays as indicated by their name Passive Infrared Motion Detector. When an object with a surface temperature other than that of the environment enters the detection area, its heat radiation is directed via lenses on sensor elements and triggers a switching operation.

Adjustment

Optical:

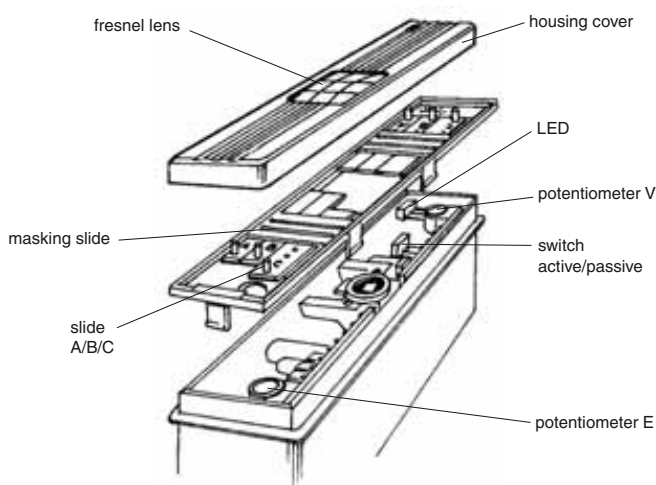
Each lens segment can be masked individually by the slides A/B/C into grid stages 1/2/3.

Electrical:

The temperature response threshold can be set by means of potentiometer E. At max. sensitivity the required temperature difference to the environment is approx. +/- 0.5 °C, at. min. sensitivity approx. +/- 6 °C.

The fall-delay time (relay holding time) can be adjusted by means of potentiometer V from 0.5 to 6 s (other time intervals up to max. 25 minutes are possible).

The output function can be set by means of the switch active/passive (n.o./n.c.).



Field size

Depending on mounting height and lens covering different field sizes are the result.

mounting height 2 m	field size
min. field	800 mm x 1600 mm
max. field	1500 mm x 3000 mm

The PIR30 can be fitted on the bracket allowing it to be swiveled into any position.

Mounting notes

Note: Moving door panels should not reach into the detection area.

Tip: Check the adjusted detection area by moving a bare hand or a burning lighter 3 to 5 cm above the floor.

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