PIR20/31 sw

Passive infrared light scanner

PIR20/31 sw

with terminal compartment

CE



- **Opening impule sensor**
- **One of the smallest sensors available for this application**
- **Precise range adjustment possible using 12 Fresnel lenses**
- **Zoom function for infinite adjustment of the detection-angle size**
- **Switches at a temperature difference of ±2 °C relative to the background**

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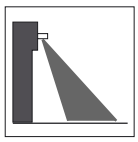
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Technical data — PIR20/31 sw

General specifications	
Effective detection range	max. 12 m (frontal)
Detection field	max. 1800 mm x 2600 mm for a mounting height of 2500 mm
Approvals	CE
Indicators/operating means	
Operating display	LED green
Function display	LED red: illuminates upon detection
Operating elements	zoom screw for detection field adjustment , sensitivity adjuster , changeover switch, active/passive
Electrical specifications	
Operating voltage	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 / inactive , programmable
Signal output	Relay, 1 alternator
Switching voltage	48 V AC/DC
Switching current	1 A
Switch power	max. 30 W / 60 VA
De-energized delay t_{off}	0.5 s (fixed setting)
Standard conformity	
Standards	89/336 EWG
Ambient conditions	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Mechanical specifications	
Mounting height	recommended: max. 3.5 m
Protection degree	IP52
Connection	screw terminals, removable
Material	
Housing	ABS, black
Optical face	Plastic lens
Mass	approx. 40 g

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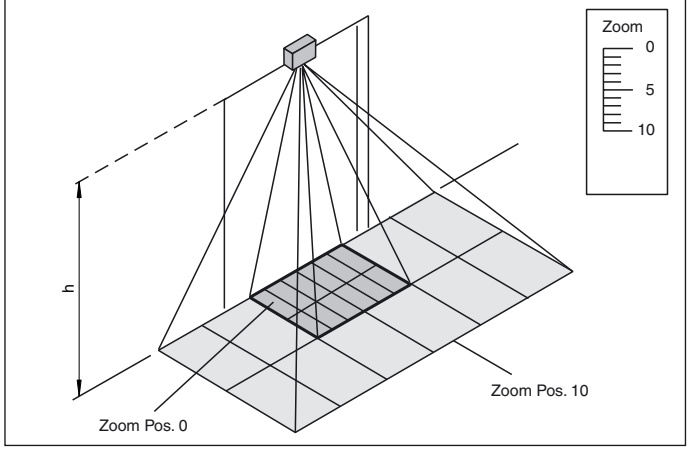
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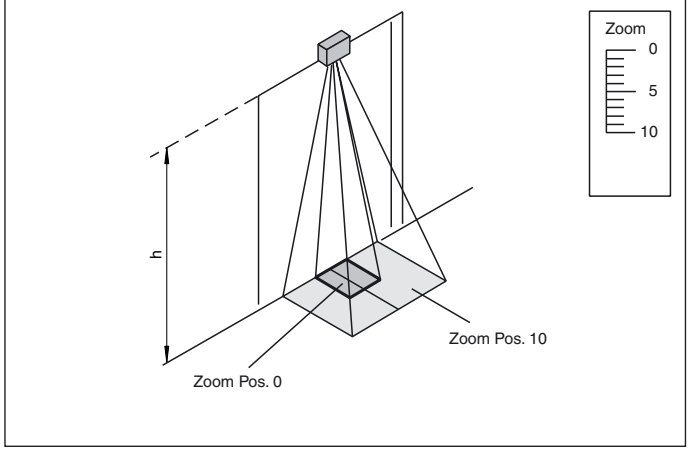
PIR20/31 sw

Curves/Diagrams

Field dimension max.



Field dimension min.



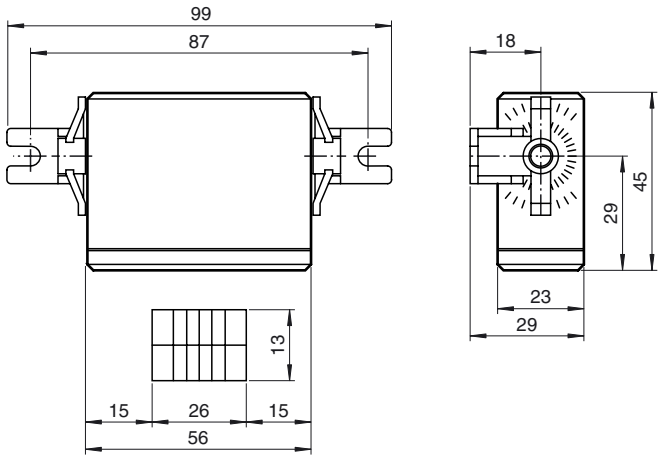
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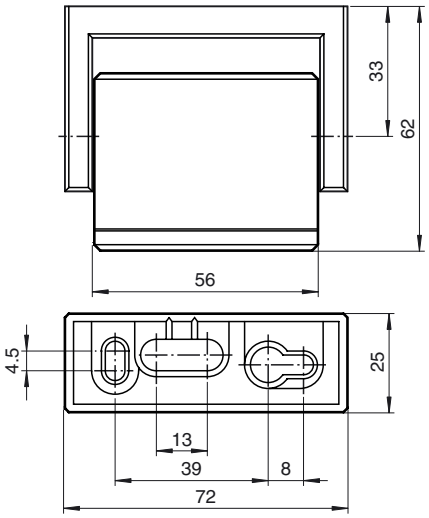
Dimensions and electrical connection PIR20/31 sw

Dimensions

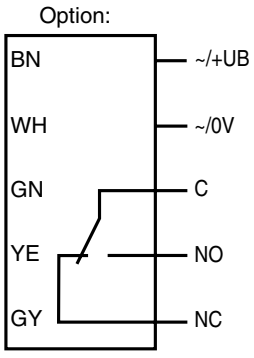
Mounting dimensions with mounting bracket



Mounting dimensions for swivel



Electrical connection



❍ = light on, ● = dark on

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PIR20/31 sw

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.

Field size

Depending on mounting height and zoom-screw adjustment different field sizes can be achieved.

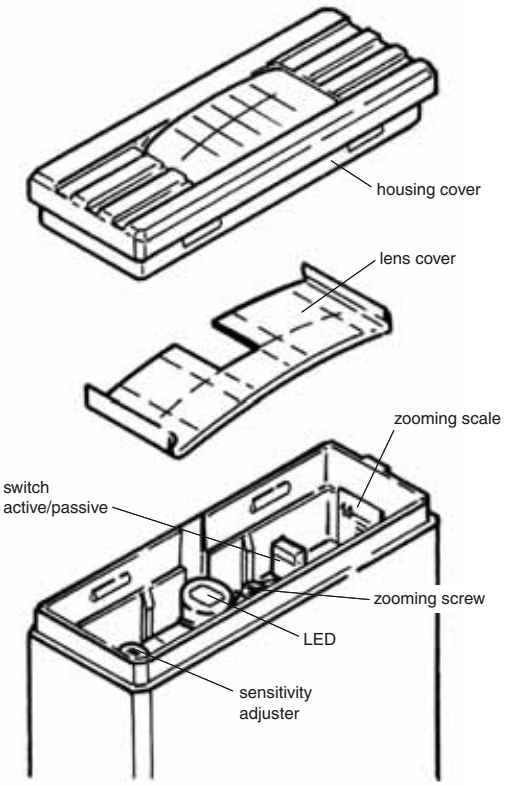
Largest fields (without diaphragm, all lenses are open)

h = 2 m	field dimension	zoom adjustment
min. field	800 mm x 1600 mm	0
max. field	1500 mm x 3000 mm	10

Smallest fields (original diaphragm used, only 2 lenses are open)

h = 2 m	field dimension	zoom adjustment
min. field	200 mm x 300 mm	0
max. field	800 mm x 1000 mm	10

Note:
The best depth of focus is at pos. 0. Zooming up to pos. 10 infinitely enlarges the detection fields in every direction, however reduces the marginal sharpness slightly.



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BIRCHER REGLOMAT
sensing the future

EG-Konformitätserklärung

Hersteller:	**Bircher Reglomat AG**
Adresse:	**Wiesengasse 20** **CH-8222 Beringen**

erklärt, dass das Produkt:

Typ:	**PIR 20**
Verwendungszweck:	**Passiv-Infrarot-Bewegungsmelder**

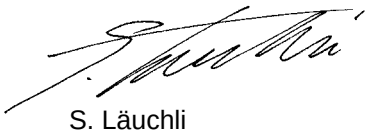
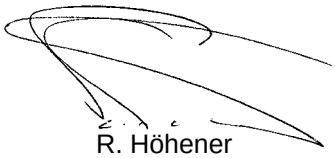
bei bestimmungsmässiger Verwendung den grundlegenden Anforderungen gemäss

EMV-Richtlinie 89/336/EWG,

entspricht und dass die folgenden Normen angewandt wurden:

DIN EN 61000-6-1 : 2001
DIN EN 61000-6-2 : 2001
DIN EN 61000-6-3 : 2001
DIN EN 61000-6-4 : 2001

Beringen, 2006-02-09
(Ort und Datum der Konformitätserklärung)

Leiter Entwicklung	Geschäftsführer
	
S. Läuchli	R. Höhener