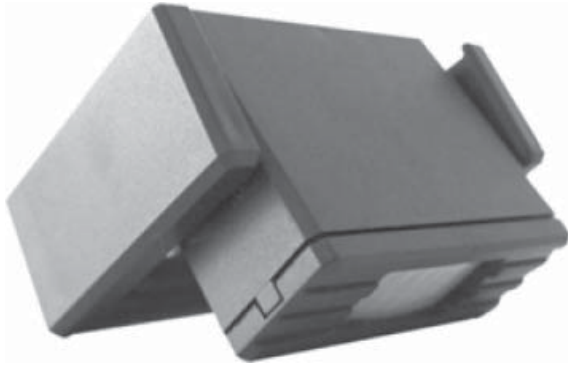


# Photoelectric swithes

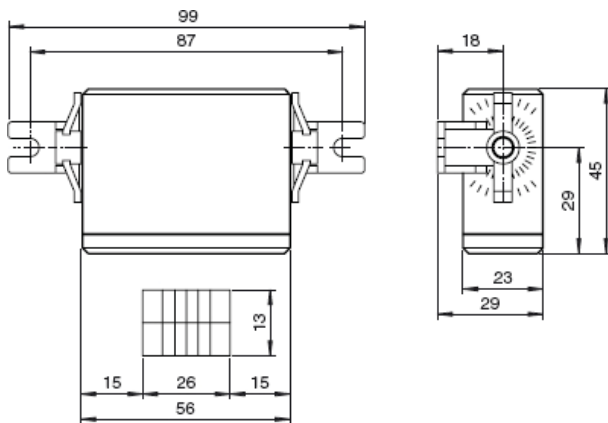
BRI12M-QCS6-RD

With terminal compartment

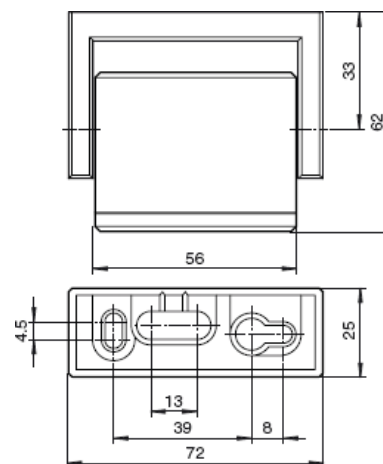


- ◆ Small dimensions
- ◆ Precise range adjustment possible using 12 Fresnel lenses
- ◆ Zoom function for infinite adjustment of the detection-angle size
- ◆ Switches at a temperature difference of  $\pm 2^{\circ}\text{C}$  relative to the background
- ◆ Mounting bracket included in delivery

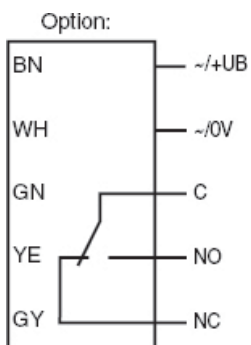
Mounting dimensions with mounting bracket



Mounting dimensions for swivel



Electrical connection



BRI12M-QCS6-RD

With terminal compartment

## Technical data

### General specifications

Effective detection range	max.12 m (frontal)
Detection field	max. 1800 mm × 2600 mm for a mounting height of 2500 mm
Approvals	CE

### Indicators/operating means

Operating display	LED green
Function display	LED red:illuminates upon detect
Operating elements	Zoom screw for detection field adjustment,sensitivity adjuster changeover switch,active/passive

### Electrical specifications

Operating voltage	12 ... 24 V AC / 12 ... 30 VDC
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	1A
Switching power	max.30 W / 60 VA
De-energized delay $t_{off}$	0.5 s (fixed setting)

### Standard conformity

Standards	89/336 EWG
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### Ambient conditions

Ambient temperature	-20 ... 60°C (253 ... 333K)
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### 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. 40g

# Photoelectric swithes

BRI12M-QCS6-RD

With terminal compartment

## Function description

### Function principal

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

### Field size

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

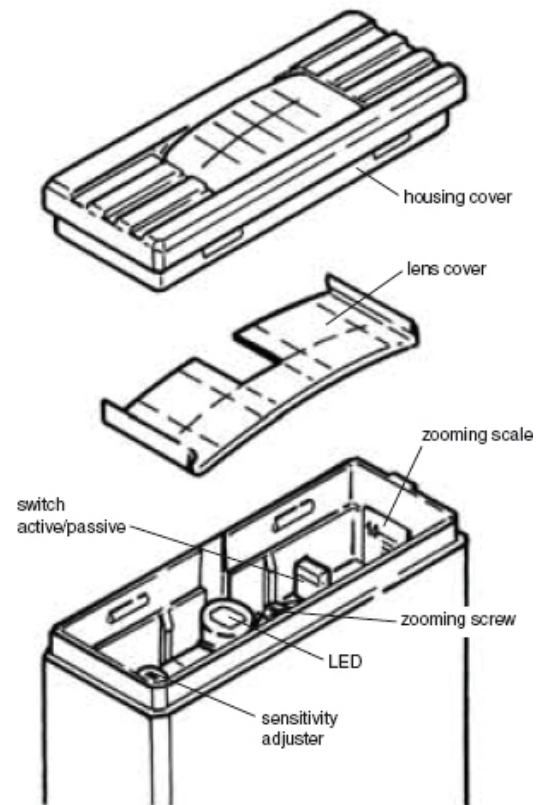
Largest fields(withour diaphragm,all lenses are open)

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

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

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

Note:  
the best depth of focus is at pos. 0. Zooming up to pos. 10 in-finitely enlarges the detection fields in every direction,howe-ver reduces the marginal sharpness slightly



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