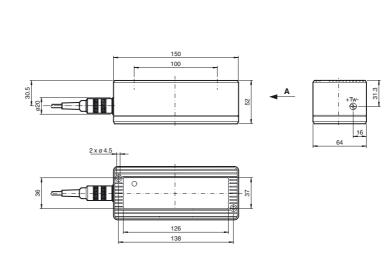
Dimensions





CE

Model Number

FLT-8-HW-2800-500/31/59

Area scanner with 5-pin, M12 x 1 connector

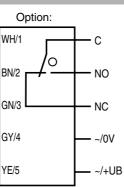
Features

- Area scanner with long detection range for detecting people and objects
- Version with Background evaluation
- Reliable detection, including of difficult objects, through background evaluation
- Possible detection range down to 0 m
- Version with detection area 500 mm x 500 mm
- Dark on version

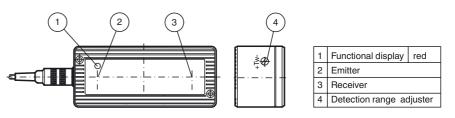
Product information

The FLT-8 series active infra-red area scanners detect people and objects located within a defined sensing field, regardless of background and whether or not they are moving. The sensors generate a clearly defined spatial sensing field, which can be mechanically adjusted. This sensing field is comprised of three or four individual light beams.

Electrical connection



Indicators/operating means



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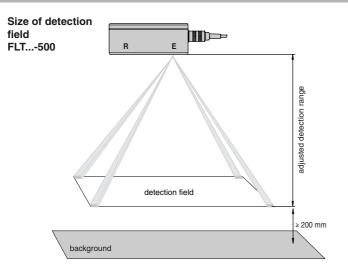


Technical data

reonnour data		
General specifications		
Detection field		500
Detection range min.		0
Detection range max.		0
Light source		4 IR
Light type		mod
Light spot representation		43 n
Marking		CE
Operating mode		Bac
Indicators/operating means		
Function display		LED
Controls		Dete
Electrical specifications		
Operating voltage	UB	15
No-load supply current	I ₀	100
Power consumption	P ₀	2.5 \
Output		
Switching type		dark
Signal output		Rela
Switching voltage		≤ 25
Switching current		≤2/
Switching power		500
Response time		100
Standard conformity		
Standards		EN 6
Ambient conditions		
Ambient temperature		-20
Storage temperature		-20
Mechanical specifications		
Mounting height		max
Protection degree		IP65
Connection		Con
Material		
Housing		Mak
Optical face		Glas
Mass		320

500 mm x 500 mm at 2000 mm sensor range
0 1200 mm
0 2800 mm
4 IRED
modulated infrared light
43 mm x 43 mm at 2000 mm
CE
Background evaluation
LED red
Detection range adjuster
15 48 V AC/DC
100 mA
2.5 W
dark on
Relay, 1 alternator
\leq 250 V AC/DC
≤2 A
500 VA
100 ms
EN 60947-5-2
-20 60 °C (-4 140 °F)
-20 75 °C (-4 167 °F)
max. 2800
IP65
Connector, with 2 m cable connector
Makrolon GV30 black
Glass, red
320 g

Curves/Diagrams



Detection field size versus adjusted detection range:

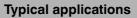
detect. field	detection field size	spot size
1500 mm	380 mm x 380 mm	30 mm x 30 mm
1800 mm	450 mm x 450 mm	35 mm x 35 mm
2000 mm	500 mm x 500 mm	43 mm x 43 mm
2500 mm	610 mm x 610 mm	57 mm x 57 mm
2800 mm	685 mm x 685 mm	64 mm x 64 mm

Operating principle

2

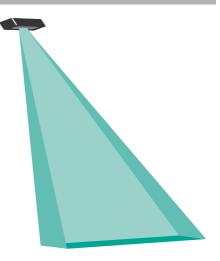
The FLT-8-HW serves to detect people and objects that appear in the detection range of the device. It reacts if at least one of the light beams connects with the object to be detected. The device functions as a sensor with background evaluation. In addition to the normal scenario "activation as soon as an object moves into the foreground" the sensor requires a signal from

www.pepperl-fuchs.com



- Protection mechanism for closing edges on automatic doors and gates
- Monitoring hazardous areas, such as crushing or shearing edges
- Anti-collision protection on automated guided vehicles
- Presence checks for people

Detection area



Accessories

Montageplatte FLT Mounting plate for FLT-8 series sensors

FLT-500-AR

alignment aid for FLT...-500

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

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the background, which acts as a type of reflector. Compared to normal background suppression, this process offers significant advantages:

- Reliable: Even reflective objects are detected, as the sensor does not receive a signal from the background.
- Tamperproof: Partial or complete covering of the optical area is detected --> output is permanently set
- Fail-safe: Emitter failure message is sent if one of the emitters fails --> output is permanently set

When setting the detection range, ensure that the device is always aligned with a background. The detection range limit should be at least 200 mm from the background.

Multiple sensors can be arranged in such a way that their detection fields adjoin one another or overlap, without resulting in faulty circuits. The function of the sensor is indicated by a red LED, which is visible through the front panel.

