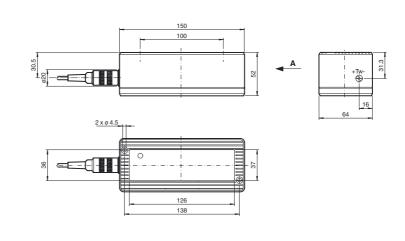


## **Dimensions**



# CE

## **Model Number**

## FLT-8-H-2800-500/59/101

Area scanner

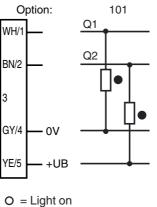
with connector, Binder series 581, 5-pin

## **Features**

- Area scanner with long detection ran-٠ ge for detecting people and objects
- Version with Background suppression
- Ignores objects outside of selected • area
- Version with detection area 500 mm x 500 mm
- Dark on version

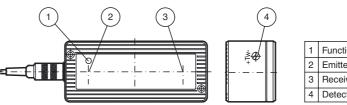
## **Product information**

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



1	Functional display	red	
2	Emitter		
3	Receiver		
4	Detection range adjuster		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001

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## **Technical data**

lechnical data			
General specifications			
Detection field		500 mm x 500 mm at 2000 mm sensor range	
Detection range min.		100 1200 mm	
Detection range max.		100 2800 mm	
Light source		4 x IRED	
Light type		modulated infrared light	
Light spot representation		43 mm x 43 mm at 2000 mm	
Marking		CE	
Operating mode		Background suppression	
Functional safety related para	meters		
MTTF <sub>d</sub>		470 a	
Mission Time (T <sub>M</sub> )		20 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
Function indicator		LED red	
Control elements		Detection range adjuster	
Electrical specifications			
Operating voltage	UB	15 48 V DC	
No-load supply current	I <sub>0</sub>	100 mA	
Power consumption	P <sub>0</sub>	2.5 W	
Output			
Switching type		dark on	
Signal output		1 PNP and 1 NPN short-circuit protected, open collector, syn- chronized-switching	
Switching voltage		48 V DC	
Switching current		200 mA	
Response time		100 ms	
De-energized delay	t <sub>off</sub>	200 ms	
Ambient conditions			
Ambient temperature		-20 60 °C (-4 140 °F)	
Storage temperature		-20 75 °C (-4 167 °F)	
Mechanical specifications			
Mounting height		max. 2800 mm	
Protection degree		IP65	
Connection		Connector, Binder series 581, 5-pin	
Material			
Housing		Makrolon GV30 black	
Optical face		Glass, red	
Mass		320 g	
General information			
Scope of delivery		2 m Connecting cable	
Compliance with standards an	nd directi	-	
ves			
Standard conformity			
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007	

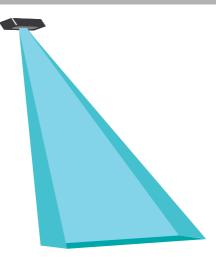
EN 61000-6-3

EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11

## **Typical applications**

- 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

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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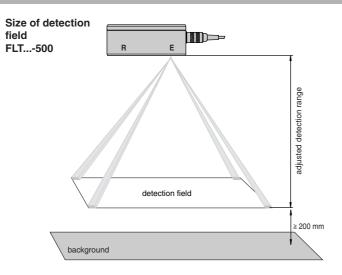
Emitted interference

Standards

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## **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

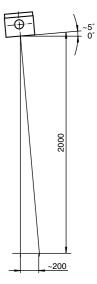
## **Functional specifications**

The FLT-8-H serves to detect persons and objects as they enter the detection range of the device. The device responds at the moment the object to be detected is hit by at least one of the light beams. The sensor functions as a sensing device with background suppression.

In case the background (floor, wall) produces permanent or temporary sparkling reflections, e. g. due to wetness, the sensor needs to be turned by at least 5° around its longitudinal axis during installation to prevent mirror effects (fig).

Several sensors can be arranged in such a way that their scanned areas can border on each other directly or overlap without any switching error occurring.

The light scanner function is displayed by a red LED which can be observed through the front disc.



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