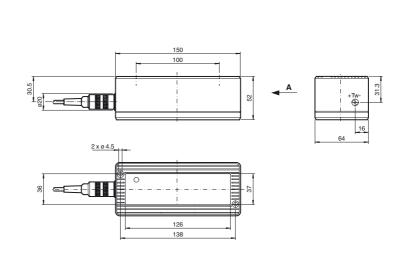
Dimensions







CE

Model Number

FLT-8-H-2800-500/120a

Area scanner

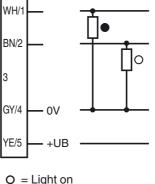
with connector, Binder series 581, 5-pin

Features

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

Product information

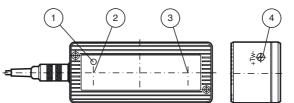
The FLT-8 series active infra-red area scanners detect people and objects located within a defined sensing field, regardless of background and whether or not they are moving. The sensors generate a clearly defined spatial sensing field, which can be mechanically adjusted. This sensing field is comprised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



Electrical connection

$$\bullet = \text{Dark on}$$

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" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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Technical data

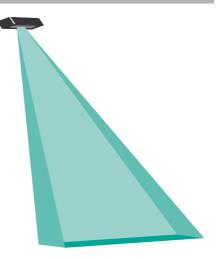
General specifications Detection field Detection range min. Detection range max 4 x IRED Light source Light type Light spot representation Marking CE Operating mode Functional safety related parameters MTTF_d 470 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Function indicator I FD red Control elements **Electrical specifications** Operating voltage U_B No-load supply current I_0 100 mA 2.5 W Power consumption P_0 Output Switching type Signal output Switching voltage 48 V DC Switching current 200 mA 100 ms Response time 200 ms De-energized delay toff Ambient conditions Ambient temperature Storage temperature **Mechanical specifications** Mounting height Degree of protection IP65 Connection Material Housing Optical face Glass. red 320 g Mass General information Scope of delivery Compliance with standards and directives Standard conformity IEC 60947-5-2 Product standard Emitted interference EN 61000-6-3 Standards EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11

500 mm x 500 mm at 2000 mm sensor range 100 ... 1200 mm 100 ... 2800 mm modulated infrared light 43 mm x 43 mm at 2000 mm Background suppression Sensing range adjuster 15 ... 48 V DC light/dark on 2 PNP, complementary, short-circuit protected, open collectors -20 ... 60 °C (-4 ... 140 °F) -20 ... 75 °C (-4 ... 167 °F) max. 2800 mm Connector, Binder series 581, 5-pin Makrolon GV30 black 2 m Connecting cable

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 auided 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

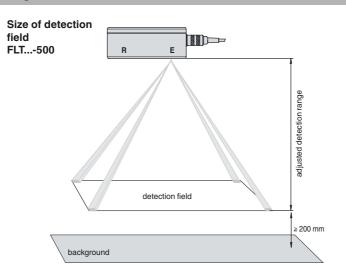
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Curves/Diagrams



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

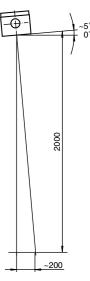
Functional specifications

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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