

# Area scanner

# FLT-8-H-2800-300/120a



- Area scanner with long detection range for detecting people and objects
- Version with Background suppression
- Ignores objects outside of selected area
- Version with detection area 300 mm x 500 mm

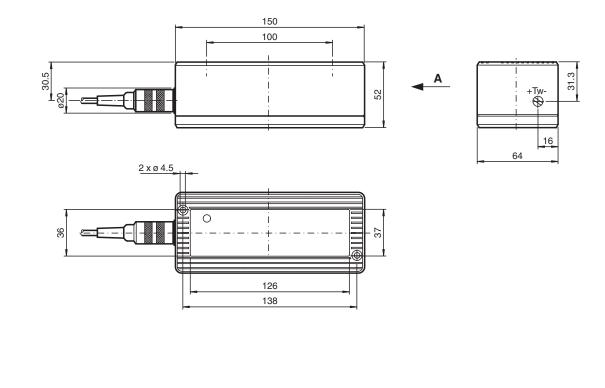
Area scanner with large detection range for detecting people and objects



## Function

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.

# Dimensions



# **Technical Data**

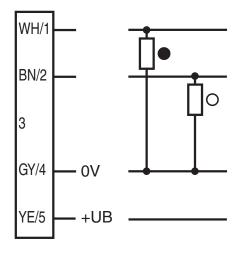
	300 mm x 500 mm at 2000 mm sensor range			
	100 1200 mm			
	100 2800 mm			
	4 x IRED			
	modulated infrared light			
	43 mm x 43 mm at 2000 mm			
	CE			
	Background suppression			
Operating mode Background suppression Functional safety related parameters				
	470 a			
	20 a			
	0 %			
Diagnostic Coverage (DC) 0 %				
	LED red			
	Sensing range adjuster			
Control elements Sensing range adjuster Electrical specifications				
UB	15 48 V DC			
	100 mA			
	2.5 W			
0				
	light/dark on			
	2 PNP, complementary, short-circuit protected, open collectors			
	48 V DC			
	200 mA			
	100 ms			
t <sub>off</sub>	200 ms			
De-energized delay t <sub>off</sub> 200 ms Compliance with standards and directives				
	IEC 60947-5-2			
	EN 61000-6-3			
	EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11			
Standards         EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11           Ambient conditions         En 61000-6-2 without EN 61000-4-5, EN 61000-4-11				
	-20 60 °C (-4 140 °F)			
	-20 75 °C (-4 167 °F)			
	max. 2800 mm			
	IP65			
	Connector, Binder series 581, 5-pin			
	Makrolon GV30 black			
	Glass, red			
	320 g			
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 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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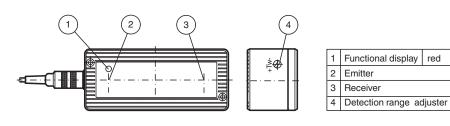
 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
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# **Connection Assignment**

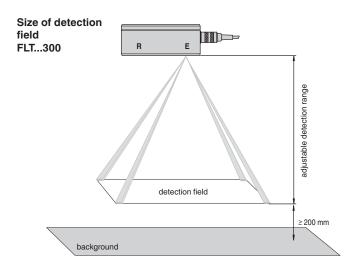


- O = Light on
- = Dark on

## Assembly



# **Characteristic Curve**



#### Detection field size versus adjusted detction range:

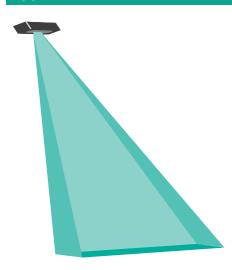
detect. range	detection field size	spot size
1500 mm	380 mm x 220 mm	30 mm x 30 mm
1800 mm	450 mm x 270 mm	35 mm x 35 mm
2000 mm	500 mm x 300 mm	43 mm x 43 mm
2500 mm	610 mm x 370 mm	57 mm x 57 mm
2800 mm	685 mm x 415 mm	64 mm x 64 mm

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

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#### Area scanner

#### Application



#### **Accessories**



Montageplatte FLT

Mounting plate for FLT-8 series sensors

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

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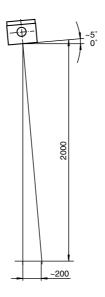
# **Function Principle**

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.



## Application

- · 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

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