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Model Number

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

Area scanner

with connector, Binder series 581, 5-pin

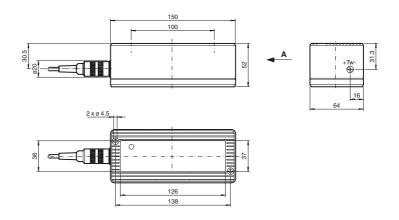
Features

- 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

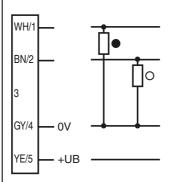
Product information

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.

Dimensions

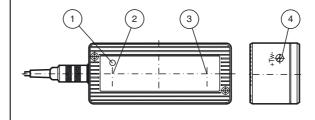


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



	1	Functional display	red
	2	Emitter	
	3 Receiver 4 Detection range adjus		
			djuster

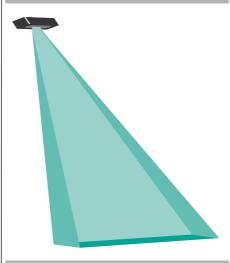


Technical data General specifications Detection field 300 mm x 500 mm at 2000 mm sensor range Detection range min. 100 ... 1200 mm 100 ... 2800 mm Detection range max 4 x IRED Light source modulated infrared light Light type Light spot representation 43 mm x 43 mm at 2000 mm Marking CE Operating mode Background suppression 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 Sensing range adjuster **Electrical specifications** 15 ... 48 V DC Operating voltage U_B No-load supply current I_0 100 mA 2.5 W Power consumption P_0 Output Switching type light/dark on Signal output 2 PNP, complementary, short-circuit protected, open collectors Switching voltage 48 V DC Switching current 200 mA 100 ms Response time 200 ms De-energized delay t_{off} **Ambient conditions** -20 ... 60 °C (-4 ... 140 °F) Ambient temperature -20 ... 75 °C (-4 ... 167 °F) Storage temperature **Mechanical specifications** max. 2800 mm Mounting height Degree of protection IP65 Connector, Binder series 581, 5-pin Connection Material Housing Makrolon GV30 black Optical face Glass, red General information Scope of delivery 2 m Connecting cable Compliance with standards and directives Standard conformity IFC 60947-5-2 Product standard **Emitted interference** Standards 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 auided vehicles
- Presence checks for people

Detection area



Accessories

Montageplatte FLT

Mounting plate for FLT-8 series sensors

FLT-300-AR

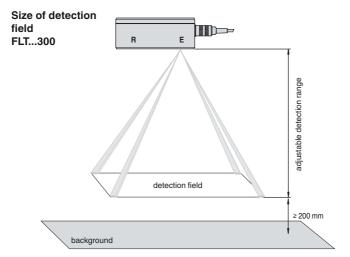
alignment aid for FLT...-300

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

www.pepperl-fuchs.com

fa-info@us.pepperl-fuchs.com

Curves/Diagrams



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

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.

