



Model Number

FLT-D/38a sw

Area scanner

Features

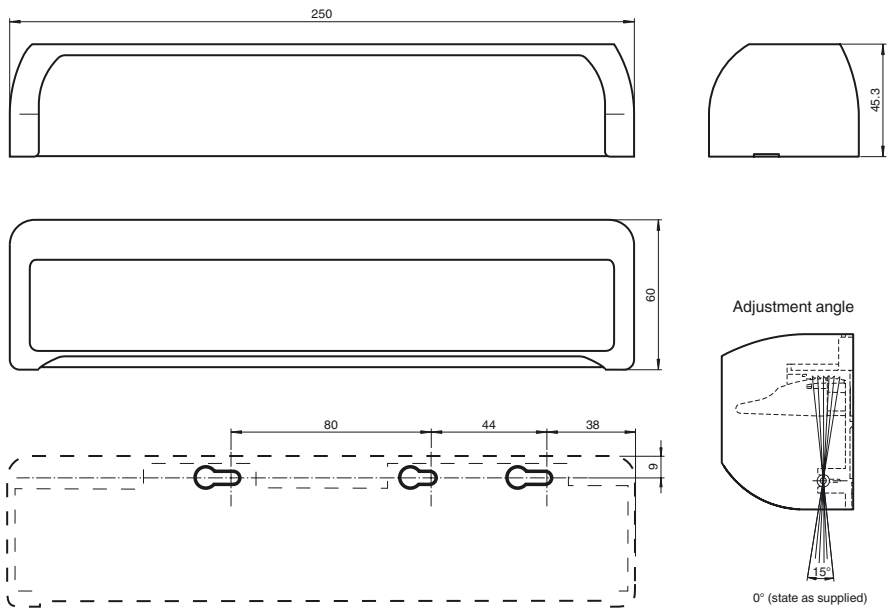
- Sensor for opening and protecting automatic doors
- Can be adjusted to the environment through a variety of adjustment options
- 20 programmable monitoring fields
- Test input

Product information

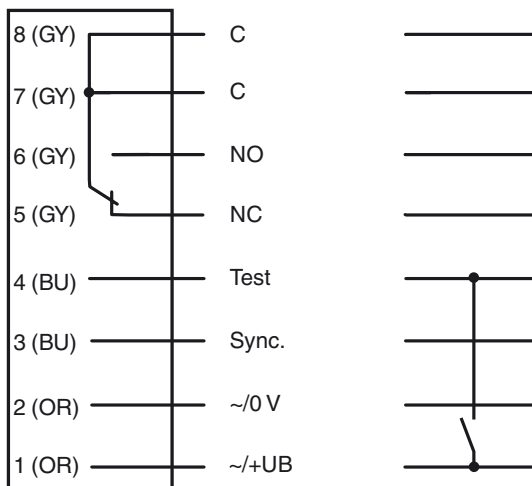
The diffuse area scanner (FLT-D) is suitable for closing edge monitoring and for use as an opening impulse sensor. In order to adapt the sensor to differing door widths and vestibule scenarios, the FLT-D offers various sensing footprints that can be programmed in a flexible manner.

As an added safety feature, the protection mechanism for closing edges is designed to allow testing.

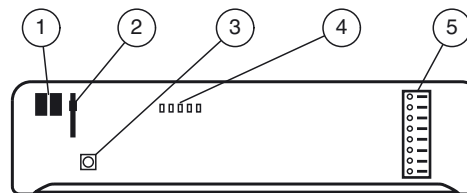
Dimensions



Electrical connection



Indicators/operating means



1	Contact point for programming
2	Adjustment lever for angle of inclination
3	Functional display for detection
4	LEDs for display of programming status
5	Connection terminal

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Technical data**General specifications**

Detection field	programmable, total field: 2200 mm x 1500 mm (WxD) for a mounting height of 2200 mm, measured using a horizontal test body 200 x 300 x 700 mm
Light source	10 IRED 950 nm
Light type	modulated infrared light
Setting angle	-6 ... 9 ° for a mounting height of 2200 mm
Open time	programmable

Indicators/operating means

Function indicator	LED red: on for object detection, flashes during teaching phase
Control elements	Programmable switch for switching type, open time, detection field
Parameterization indicator	5 LED, red

Electrical specifications

Operating voltage	U_B	12 ... 31 V DC / 12 ... 30 V AC
No-load supply current	I_0	≤ 100 mA
Power consumption	P_0	3.5 VA

Input

Test input	active with + U_B
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Output

Switching type	light/dark on selectable programmable
Signal output	Relay, 1 alternator
Switching voltage	AC : 30 V ; DC : 32 V
Switching current	300 mA
Switching power	55 VA
Response time	≤ 110 ms

Ambient conditions

Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-30 ... 75 °C (-22 ... 167 °F)

Mechanical specifications

Mounting height	max. 2200 mm
Degree of protection	IP54 (iwhen mounted)
Connection	terminal strip 8-pin 1 ... 1.5 mm ²
Material	
Housing	PC
Optical face	PC
Covering	ASA, black
Mass	195 g
Note	Safety fuse ≤ 315 mA (slow-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

Compliance with standards and directives

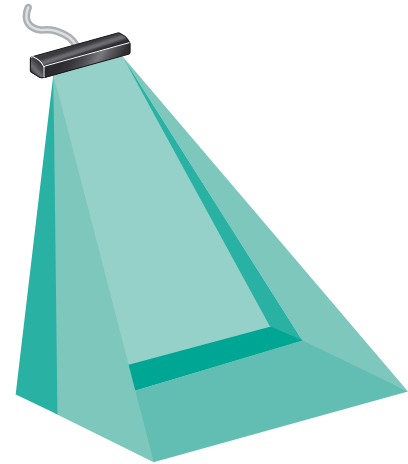
Directive conformity	
EMC Directive 2004/108/EC	EN 61000-6-1 EN 61000-6-2 without EN 61000-4-5, EN 61000-4-11, EN 61000-6-3, EN 61000-6-4
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007 ANSI 156,10 (as activation sensor)

Approvals and certificates

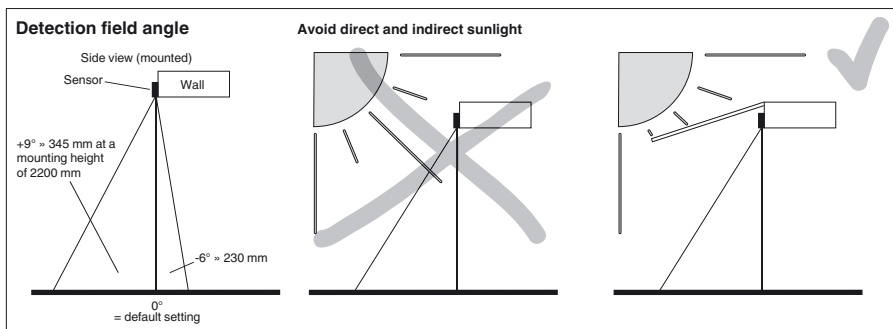
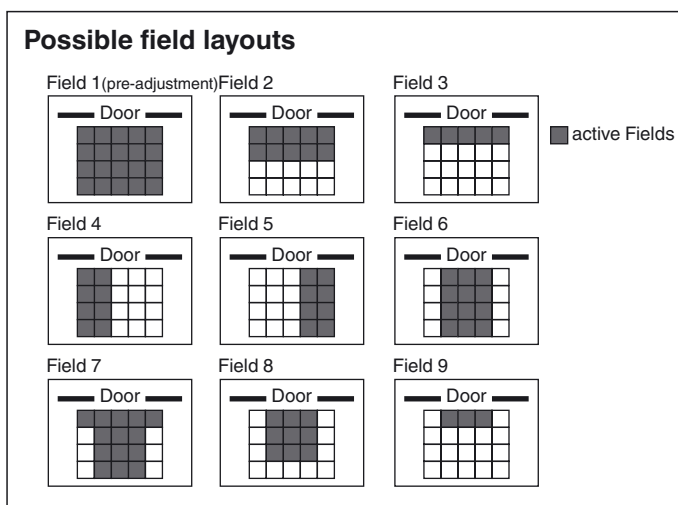
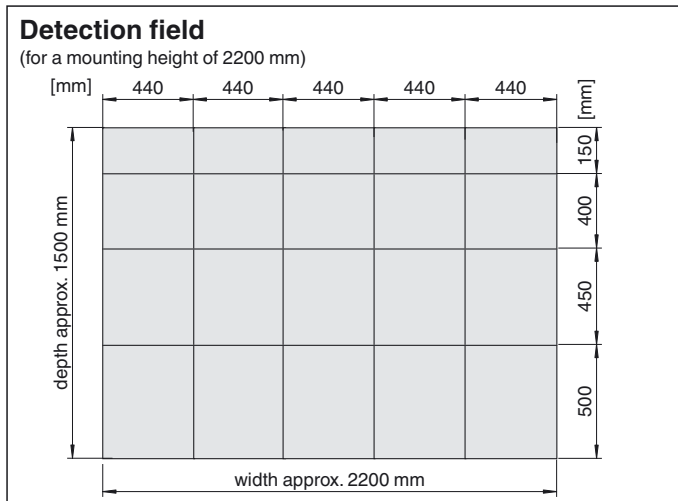
UL approval	UL
CCC approval	CCC approval / marking not required for products rated ≤36 V

Typical applications

- Generates the opening impulse on automatic sliding and revolving doors
- Protection mechanism for closing edges on automatic doors and elevators
- Anti-collision protection on revolving doors

Detection area

Curves/Diagrams



Functional principle

The FLT-D detects people or objects in a field defined via an emitter/receiver. The resulting signal is sent to the door controller via an integrated control interface. Immediately after activation, the static characteristics of the environment within the detection field are first programmed as a reference. This enables error-free monitoring, even in changing ambient conditions resulting from rain, snow or other lens contaminants. In situations where the environment is constantly changing, reprogramming occurs automatically after a defined period. Interference, such as from an object placed in the entrance to a door, is eliminated.

The FLT-D is delivered with factory default settings. The field sizes, programming time, sensitivity and switching mode can be changed or reprogrammed as required.

The entire functionality of the FLT-D can be tested via its test input.

As no two installation scenarios and environments are the same, there are nine different programmable sensing footprints; for example, suppressing cross-traffic along sidewalks, monitoring a narrow corridor, or only the detection line is activated for protection. This feature ensures the FLT-D can be optimally adapted to different entry ways and applications.

The master/slave function is designed for monitoring particularly wide doors and entry ways, and allows up to three devices to be operated in parallel without interfering with each other.