Model Number

FLT-D/38a sw

Area scanner

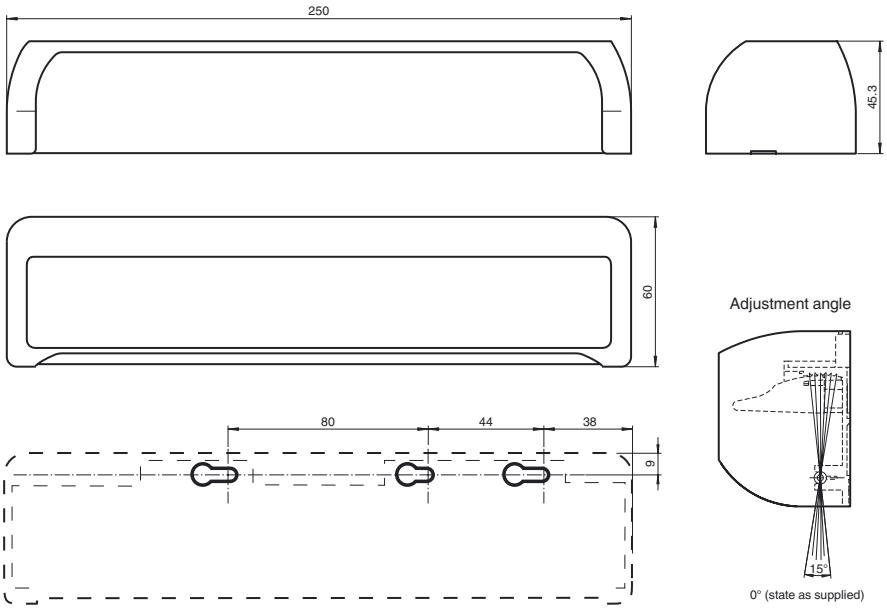
Features

- Sensor for opening and protecting automatic doors
- Can be adjusted to the environment through a variety of adjustment options
- 20 programmable monitoring fields
- Test body detection according to prEN12650
- Test input

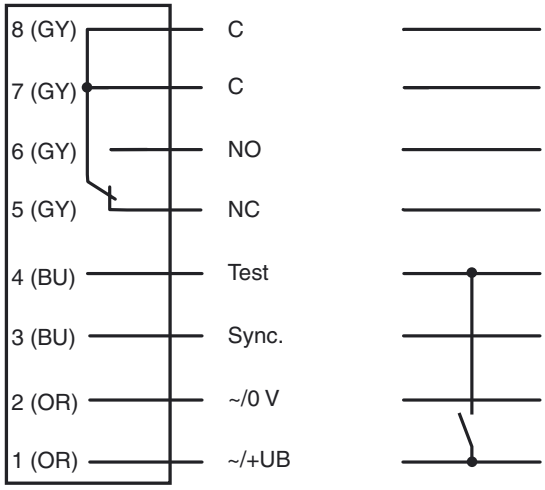
Product information

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. The standard child recognition requirement in accordance with international standards (EN 12650) is ensured via the FLT-D.

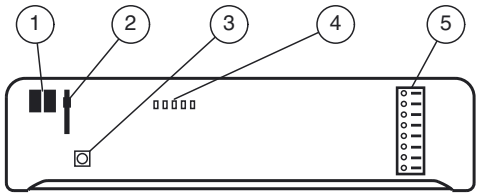
Dimensions



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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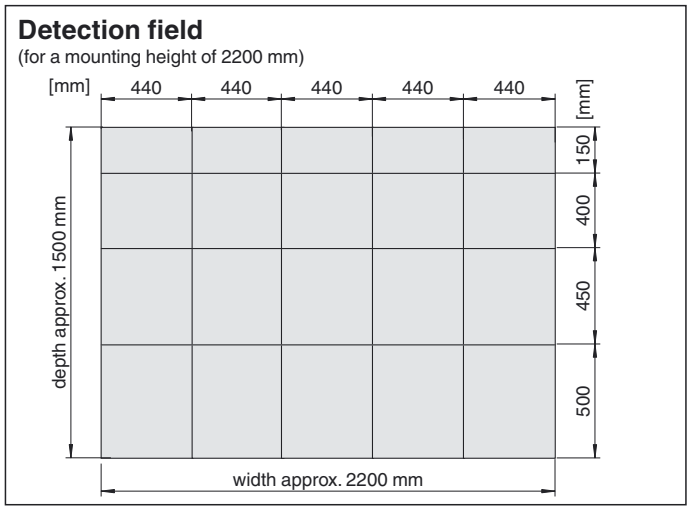
Technical data

General specifications		
Detection field		programmable , total field: 2200 mm x 1500 mm (WxD) for a mounting height of 2200 mm
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 display		LED red: on for object detection, flashes during teaching phase
Controls		Programmble switch for switching type, open time, detection field
Parameterization display		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 $+U_B$
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
Protection degree		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.

Approvals and certificates	
UL approval	UL
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

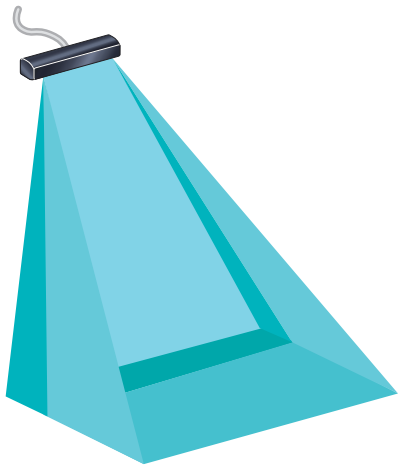
Curves/Diagrams



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



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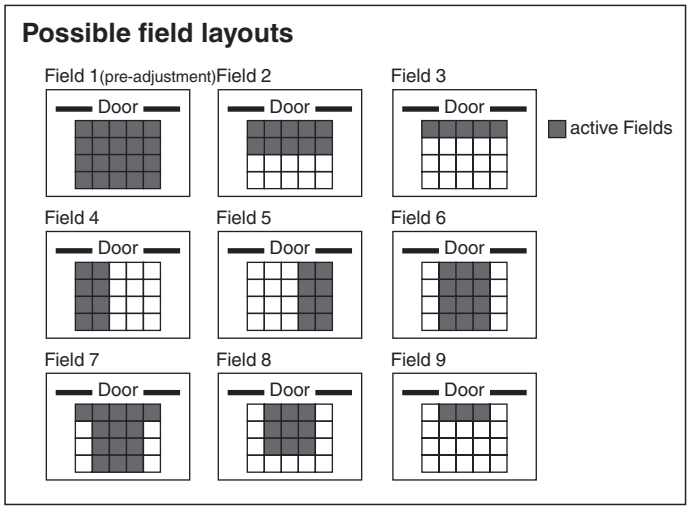

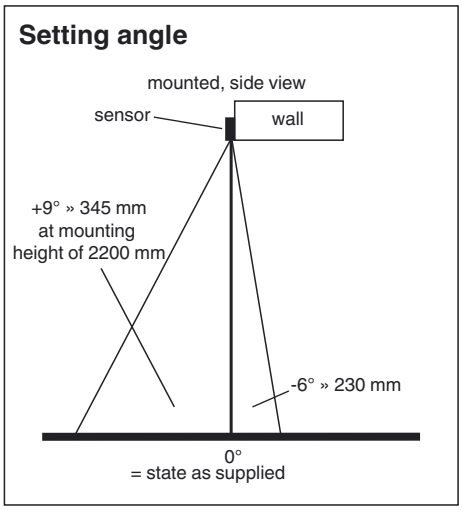

Functional principle

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.

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