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FLATSCAN

Safety sensor for swing doors

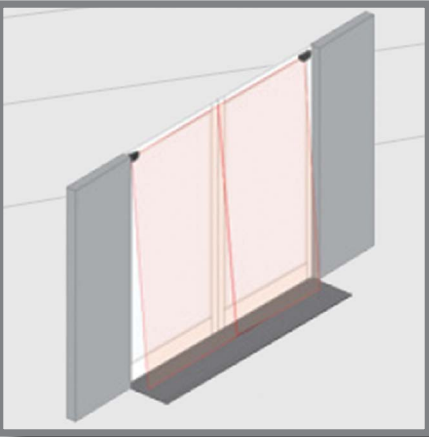
FAAC
Simply automatic.



Compliant with EN 16005/DIN 18650

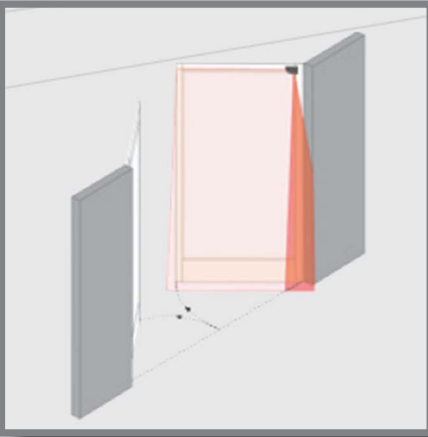
The easy to install FLATSCAN SW uses time of flight laser technology for swing doors to generate 170 measurement points that provide a complete protection for swing doors and their users. A pair of FLATSCAN SW cover both side of the entire door wing including the hinge area.

Independent of flooring and surroundings



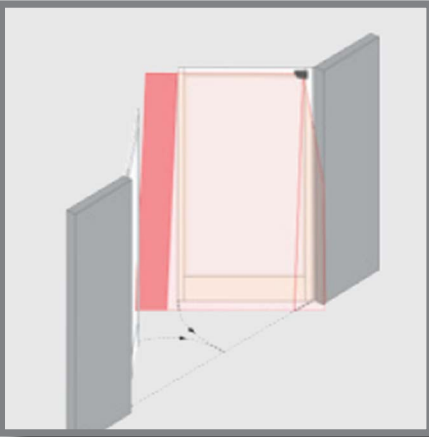
Laser technology guarantees independence of all types of flooring (slatted, absorbent carpet etc) and the direct surrounding of the door (handrail, walls, radiators etc).

Pinch Zone Safety



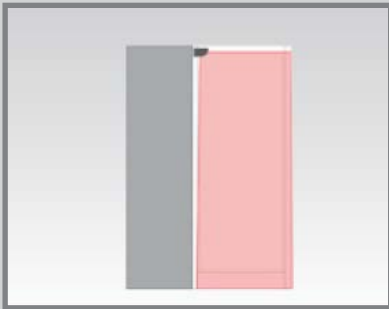
The FLATSCAN SW covers the hinge area of a door to protect hands and fingers during the closing process. It counts 100 points, divided over 16° in the pinch zone.

Main closing Edge safety*

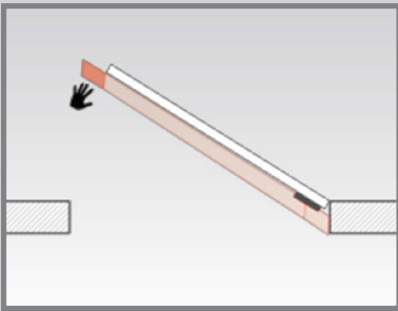


The Flatscan SW extends its coverage beyond the door edges, for enhanced safety.

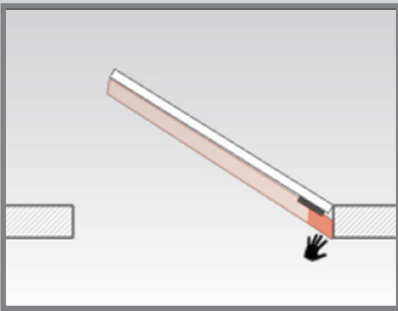
Applications



Total coverage of the door with just 1 module

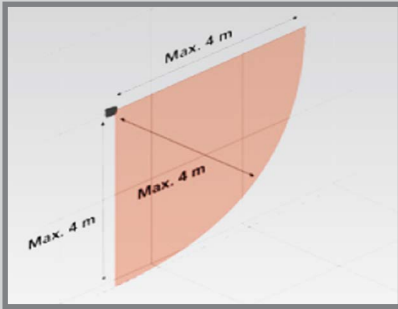


Main closing edge safety



Pinch zone safety

Detection Range

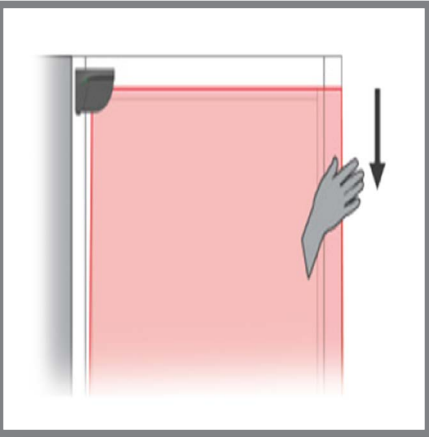


Max. detection range 4m (diagonal)

Technical Specifications

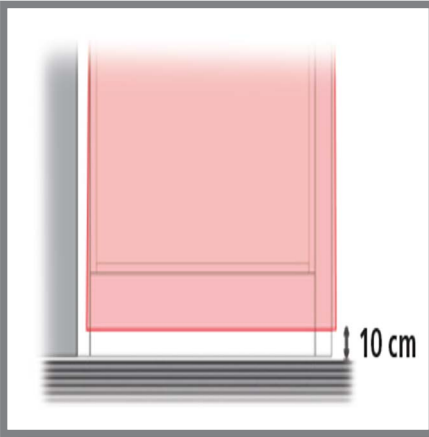
Technology	LASER scanner, time of flight measurement
Detection mode	Presence
Max Detection range	4m (diagonal) with reflectivity of 2%
Opening angle	Door wing safety: 90°/pinch zone safety: 16°
Angular resolution	Door wing safety: 1.3°/pinch zone safety: 0.2°
Typical min object size	
Door Wing safety	10cm @ 4m (in proportion to object distance)
Pinch Zone safety	2cm @ 4m (in proportion to object distance)
Testbody	700mm x 300mm x 200mm (testbody A according to EN 16005 & DIN 18650)
Emission Characteristics	Wavelength 905nm; max output pulse power 25W; class 1
Supply Voltage	12-24V DC + 15%
Power Consumption	< 2W
Response time	Door wing safety: max 50ms/pinch zone safety: max 90ms
Output 2 electronic relays (galvanic isolation - polarity free)	
Max switching voltage	42V AC/DC
Max switching current	100 mA
LED signals	1 bi-coloured LED: detection/output status
Dimensions	142mm (L) x 85mm (H) x 23mm (D) (mounting bracket + 7mm)
Material - Colour	PC/ASA - Black
Tilt Angles	+2° to +10° (without mounting bracket)
Protection degree	IP54
Temperature Range	-30°C to +60°C if powered
Humidity	0-95% non-condensing
Vibrations	<2G
Min Door wing speed	2°/sec
Norm conformity	2006/95/EC: LVD; 2011/65/EU: RoHS 2; 2004/108/EC: EMC; 2006/42/EC: MD; EN12978:2009; EN ISO 13849-1: 2008 PI "d"/CAT2; EN 60529: 2001; IEC 60825-1: 2014; EN 60950-1: 2013; EN 61000-6-2: 2005; EN 61000-6-3: 2011; EN62061: 2012 SIL 2; EN 16005:2012 Chapter 4.6.8 (testbody A)

Fast, Intuitive Installation



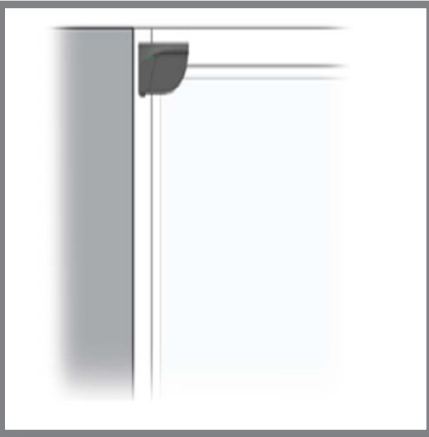
The size of the sensor area is defined by hand movement. Products do not have to be cut anymore to fit the doorframe.

Uncovered Zone



Thanks to the high precision of the laser technology, the uncovered zone can be reduced to 10cm.

Compact in Size



The Flatscan SW can be used on any size of swing door. Thanks to its compact design (8.5cm x 14.2cm) it can be stocked and stored easily.

* Only available if a Flatscan SW module is mounted on each side of the door wing.

Installation

- One module on each side is enough to secure the whole door, regardless of its size
- Master-Slave operator compatible with 4SAFE
- The mechanical angle can be adjusted from 2° to 10° and even further with accessories
- Specific adjustable settings thanks for 4 DIP-switches
- Automatic teach-in: direct surroundings of the door and the type of floor
- Left and right door sensors available
- Available in black as standard. Aluminium and white available to special order. The cover can be fully painted