

FLATSCAN SW

SAFETY SENSOR FOR SWING DOORS

Commercial sheet

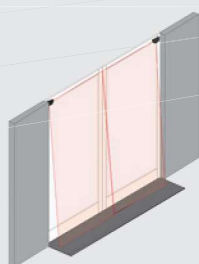


LASER TECHNOLOGY FOR YOUR DOOR

DESCRIPTION

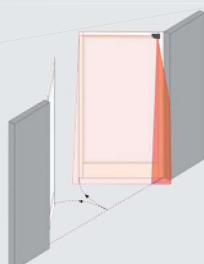
The easy-to-install **FLATSCAN SW** uses time-of-flight laser technology for swing doors to generate 170 measurement points that provide a complete protection for swing doors and their users. A single **FLATSCAN SW** covers the entire door wing including the hinge area.

COMPLIANT WITH
EN 16005/DIN 18650



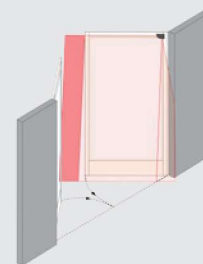
INDEPENDENT OF FLOORING AND SURROUNDINGS

Laser technology guarantees independence of all type of flooring (slatted floors, wire mesh, absorbent carpet, reflective flooring, slippery surface, etc.) and the direct surroundings of the door (handrail, walls, radiators, dustbins, 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.



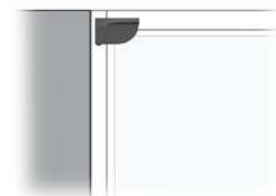
FAST, INTUITIVE INSTALLATION

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

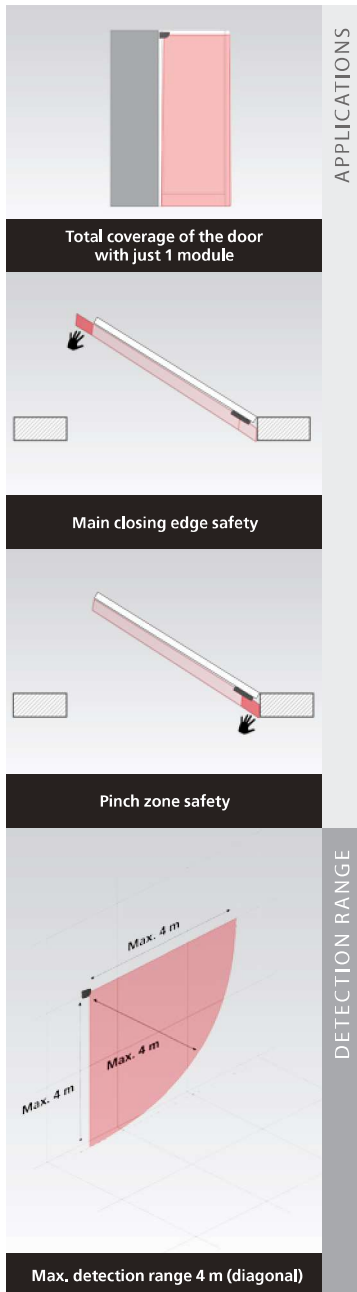
Thanks to the high precision of the laser technology, the uncovered zone can be reduced to 10 cm.



COMPACT IN SIZE

The **FLATSCAN SW** can be used on any size of swing door. Thanks to its compact design (8.5 cm x 14.2 cm) it can be stock 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 to 4 DIP-switches.
- Automatic teach-in: direct surroundings of the door and the type of floor.
- Left and right door sensors available.
- Different colours available (aluminium/black/white). The cover can be fully painted.

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time-of-flight measurement
Detection mode	Presence
Max. detection range	4 m (diagonal) with reflectivity of 2% (i.e. : at W = 1.5 m -> max. H = 3.7 m)
Opening angle	Door wing safety: 90° / Pinch zone safety: 16°
Angular resolution	Door wing safety: 1.3° / Pinch zone safety: 0.2°
Typ. min. object size	Door wing safety: 10 cm @ 4 m (in proportion to object distance) Pinch zone safety: 2 cm @ 4 m (in proportion to object distance)
Testbody	700 mm × 300 mm × 200 mm (testbody A according to EN 16005 & DIN 18650)
Emission characteristics	IR LASER
	Wavelength 905 nm; max. output pulse power 25 W; Class 1
Supply voltage	12-24V DC ± 15%
Power consumption	≤ 2 W
Response time	Door wing safety: max. 50 ms / Pinch zone safety: max. 90 ms
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	142 mm (L) × 85 mm (H) × 23 mm (D) (mounting bracket + 7 mm)
Material - Colour	PC/ASA - Black - Aluminium - White
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	< 2 G
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; EN 12978: 2009; EN ISO 13849-1: 2008 PL "d"/ CAT2; EN 60529: 2001; IEC 60825-1: 2014; EN 60950-1: 2013; EN 61000-6-2: 2005; EN 61000-6-3: 2011; EN 62061: 2012 SIL 2; DIN 18650-1: 2010 Chapter 5.7.4 (testbody A); EN 16005:2012 Chapter 4.6.8 (testbody A)

*Specifications are subject to change without prior notice.
All values measured in specific conditions.*

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