

FLATSCAN SW

SAFETY SENSOR FOR SWING DOORS

Commercial sheet

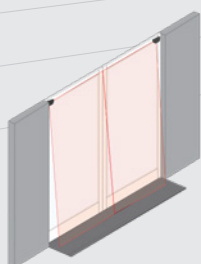


LASER TECHNOLOGY FOR YOUR DOOR

DESCRIPTION

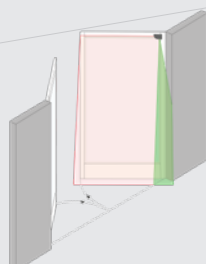
The **FLATSCAN SW** uses laser technology (time of flight measurement) for swing doors. It generates 170 measurement points to provide complete protection for the user, and is easy to install. One **FLATSCAN SW** is enough to cover both the complete width and height of a door wing and the hinge area.

COMPLIANT WITH
EN 16005/DIN 18650



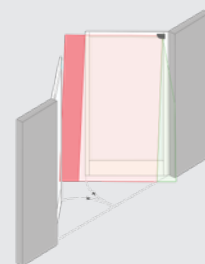
INDEPENDENT OF FLOORING AND SURROUNDINGS

Laser technology guarantees independence in terms of the 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.).



HINGE AREAS

The **FLATSCAN SW** offers 100 additional points, divided over 16° in the hinge area, to offer finger protection.



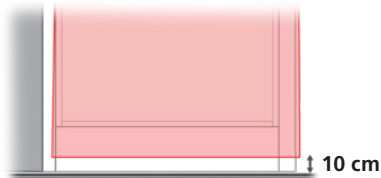
EDGES ARE SAFE

The **FLATSCAN SW** extends its coverage beyond the door edges, for better comfort.



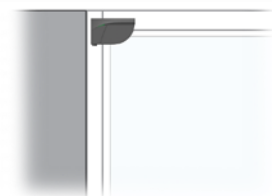
FAST, INTUITIVE INSTALLATION

The size of the sensor area is defined by hand movement. Profiles 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.

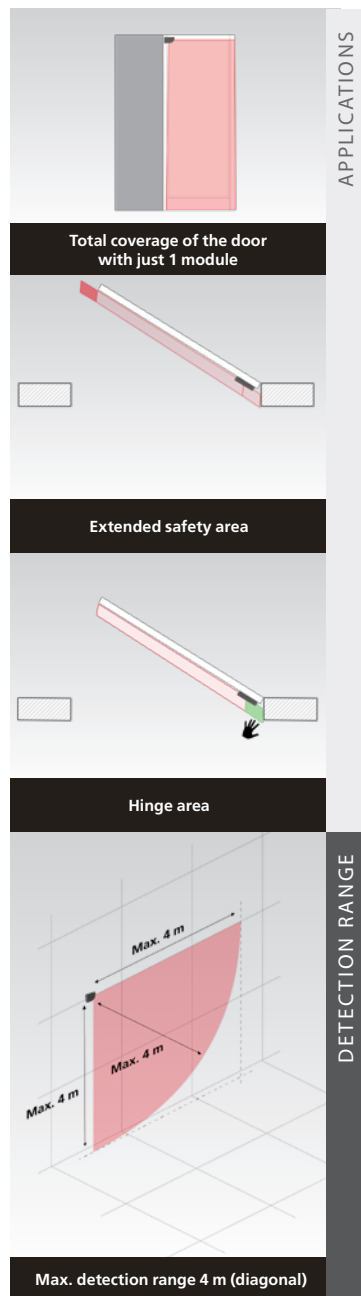


COMPACT IN SIZE

The **FLATSCAN SW** adapts itself to all types of doors whatever their size. Thanks to its compact design (8.5 cm × 14.2 cm) logistics and storage are much easier.

* 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 thanks to accessories.
- Specific adjustable settings thanks to 4 DIP-switches.
- Automatic teach-in: direct surroundings of the door and the type of floor.
- 2 designs available for installation on the left or right.
- 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° / Hinge area : 16°
Angular resolution	Door wing safety : 1.3° / Hinge area : 0.2°
Typ. min. object size	Door wing protection 10 cm @ 4 m (in proportion to object distance) Hinge area 2 cm @ 4 m (in proportion to object distance)
Testbody	700 mm × 300 mm × 200 mm (testbody CA 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 / Hinge area : 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 (D) × 23 mm (H) (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
Norm conformity (Subject to validation)	RoHS 2 2011/65/EU; MD 2006/42/EC; EMC 2014/30/EU; LVD 2014/35/EU EN 12978; EN ISO 13849-1PI "d"/ CAT2; EN 60529; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; IEC 61496-1; EN 61496-3 ESPE Type 2; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody CA);EN 16005 Chapter 4.6.8 (testbody CA)

Specifications are subject to change without prior notice.

DISCLAIMER This document as well as all other enclosed documents (quotation / specification / other) are provided «as is» without warranties of any kind, either expressed or implied, including but not limited to the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. / Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. / BEA has the right without liability to change descriptions and specifications at any time. / Prices, shipping and availability are subject to change without prior notice.

