



LZR®-FLATSCAN SW

Safety sensor for swing doors



APPLICATIONS



TECHNOLOGY

Laser

CONFORMITY



DESCRIPTION

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

VIDEO

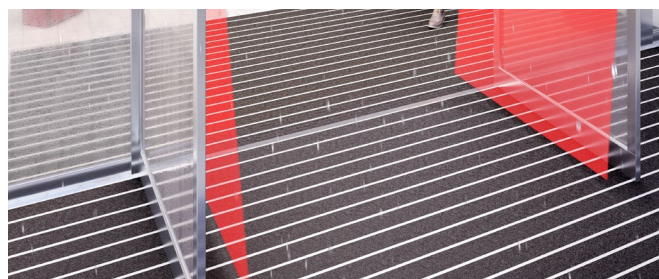


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<https://bit.ly/2KDPKut>



Compact design

The **LZR®-FLATSCAN SW** can be used on all swing doors, regardless of their size. Thanks to its compact design (8.5 cm x 14.2 cm) it can be stocked and stored easily.



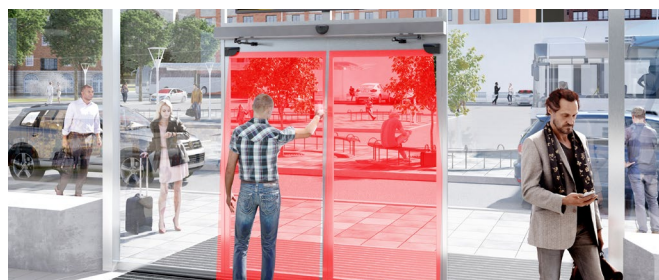
Independent of flooring and surroundings

The laser technology guarantees stability above all types of floor surfaces (slatted floors, absorbent carpet, reflective floor, slippery surface etc.). It is also independent of the door's direct environment (handrail, walls, heaters, dustbins etc.).



Pinch zone safety

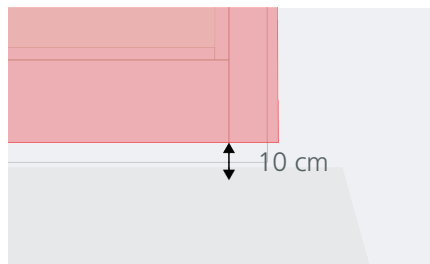
The **LZR®-FLATSCAN SW** covers the hinge area of a door to protect hands and fingers during the closing process. It counts 100 points, divided over 18° in the pinch zone.



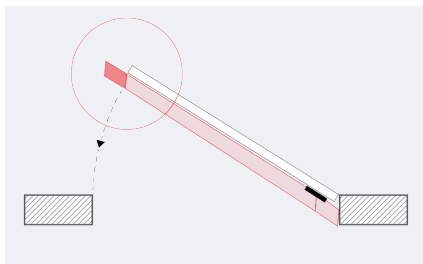
Fast & intuitive installation

The size of the sensor area is defined by simple hand movements, which leads to installation time savings.

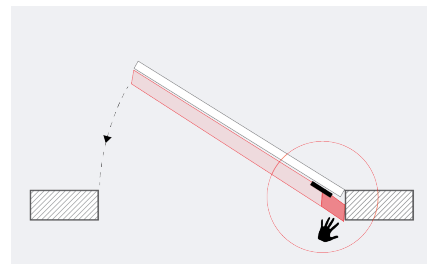
APPLICATIONS



Uncovered zone

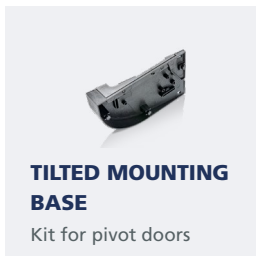
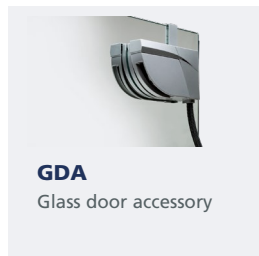


Extended safety area during closing



Pinch zone protection

ACCESSORIES



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.
- Automatic teach-in: direct surroundings of the door and the type of floor.

VERSIONS

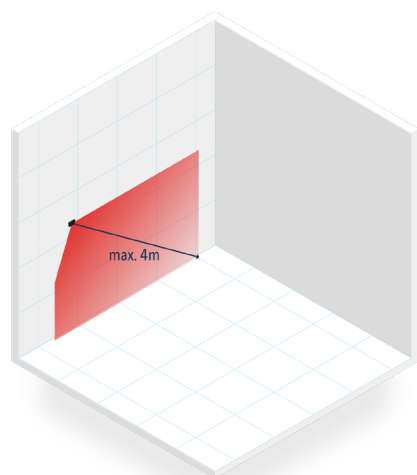
- 2 designs available for installation on the left or right.
- Different colours available (aluminium/black/white). The cover can be fully painted.

TUTORIAL



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TECHNICAL SPECIFICATIONS



Technology	LASER scanner, time-of-flight measurement
Max. detection range	4m (diagonal) with reflectivity of 2% (i.e.: at W = 1.5 m -> H=3.7 m)
Opening angle	Door wing safety : 86° / Hinge area : 18°
Angular resolution	Door wing safety : 1.23° / Hinge are : 0.18°
Typ. min. object size	
Door wing protection	10cm @ 4m
Hinge area	2cm @ 4m
Emission characteristics	IR LASER Wavelength 905 nm; max. output pulse power 25 W; Class1
Supply voltage / Consumption	12-24V DC ± 15% / ≤ 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)
Tilt angles / Protection degree	+2° to +10° (without mounting bracket) / IP54
Temperature range / Humidity	-30°C to +60°C if powered / 0-95 % non-condensing
Vibrations	< 2 G
Conformity	RoHS 2 2011/65/EU; MD 2006/42/EC; EMC 2014/30/EU; LVD 2014/35/EU EN 12978; EN ISO 13849-1Pl "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)

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