



LZR®-FLATSCAN REV-LZ

Leaf zone safety sensor for revolving doors



APPLICATIONS



TECHNOLOGY

Laser

CONFORMITY



DESCRIPTION

The **LZR®-FLATSCAN REV-LZ** is a safety sensor based on laser technology. The sensor covers the entire door leaf and is used on different types of revolving doors.



Precise detection field

Measurement points create a safety field to protect people or objects passing through from contact with the door leaf.



Detection field definition by hand movement

Move the hand up and down to easily define the width of the detection field.



Uncovered zone

Thanks to the high precision of the laser technology, the uncovered zone can work stably and lower than 10cm.



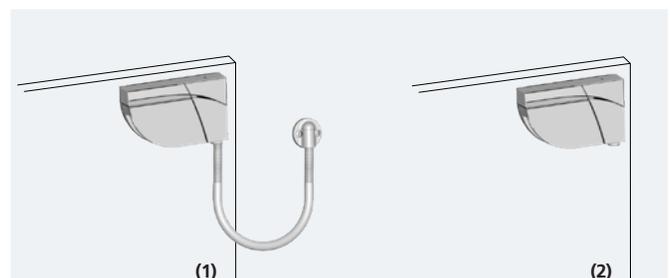
Compact design

Thanks to its compact and lightweight design, the LZR® -FLATSCAN REV-LZ is easy to install on any size of revolving door.



Independent of flooring and surroundings

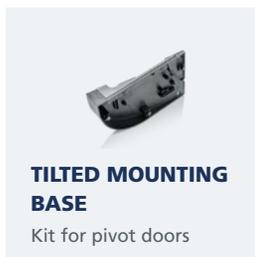
Laser technology guarantees independence of all type of flooring and the direct surroundings of the door.



2 Wiring modes

According to the door structure on site, choose a version with integrated (1) or visible wiring (2).

ACCESSORIES



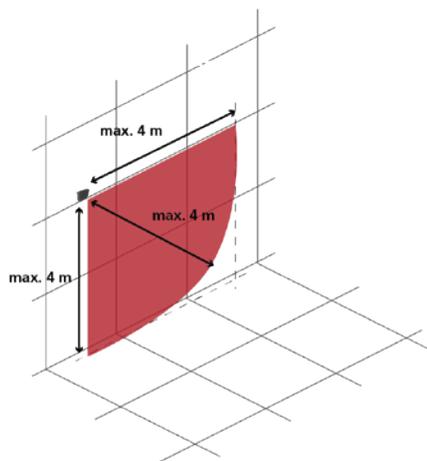
INSTALLATION

- 1 sensor secures the whole door leaf, regardless of its size.
- 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).

TECHNICAL SPECIFICATIONS



| | |
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| Technology | LASER scanner, time-of-flight measurement |
| Detection mode | Presence |
| Max. detection range | 4 m (diagonal) with reflectivity of 2% (i.e.: at W = 1.5m -> max. H = 3.7 m) |
| Opening angle | 90° |
| Angular resolution | 1.3° |
| Testbody | 700 mm × 300 mm × 200 mm (testbody CA according to EN 16005 & DIN 18650-1) |
| Emission characteristics | IR LASER: wavelength 905 nm; average output power 0.05 mW; CLASS 1(IEC/EN 60825) |
| Supply voltage | 12 - 24 V DC ± 15 % |
| Power consumption | ≤ 2 W |
| Response time | Max. 50 ms |
| Output | 2 electronic relays (galvanic isolation - polarity free) |
| Max. switching voltage | 42V AC/DC |
| Max. switching current | 100mA |
| LED-signals | 1 bi-coloured LED: detection / output status |
| Dimensions | 142 mm (L) × 85 mm (H) × 33 mm (D) (mounting base + 7 mm) |
| Tilt angles / Protection degree | +2° to +10° (without mounting base) / IP54 (IEC/EN 60529) |
| Temperature range / Humidity | from -30 °C to + 60 °C (if powered) / 0-95 % non-condensing |
| Compliance | EN 16005 Chapter 4.6.8 (test body CA); DIN 18650-1 Chapter 5.7.4 (test body CA); EN 12978; EN ISO 13849-1 PL "d" / CAT2; IEC/EN 60825-1 IEC/EN 61000-6-2; IEC/EN 61000-6-3; IEC/EN 61508 SIL2 |

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

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