

LZR®- FLATSCAN SL

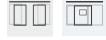
Multi-functional sensor for sliding doors



APPLICATIONS

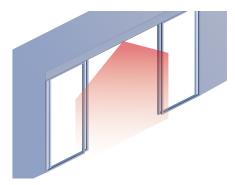
TECHNOLOGY

Laser



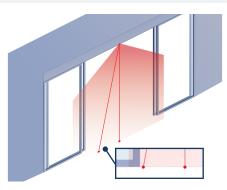
DESCRIPTION

LZR[®]-FLATSCAN SL is a multi-functional sensor for automatic sliding doors based on laser technology. It offers two virtual push buttons to open the door. In addition, 400 measurement spots provide very high detection precision and not be affected by light.



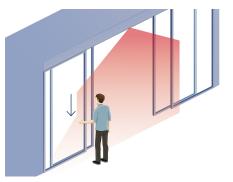
High precision, large field safety protection

The sensor can protect pedestrian safety maximized with a max 5m mounting height, a max 6m coverage width and a laser curtain generated by 400 measurement spots.



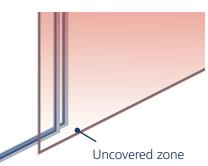
Visible spots

Two visible spots indicate the position of the curtain, it makes the curtain adjustment more quick and accurate.



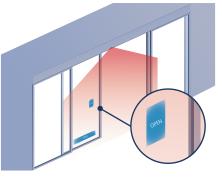
Detection field definition by hand movement

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



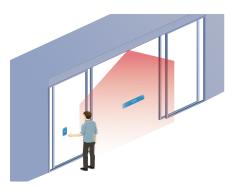
Uncovered zone

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



Virtual push buttons

Flexible settings are available for virtual push buttons (VPB) use for opening the door. Each VPB can set the size and position at will.



Long push function

Long push the buttons to keep the door open as needed.

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APPLICATIONS



Open and safety protect for sliding door.



Open and safety protect for hospital sliding door.

INSTALLATION

- Ceiling mounting and surface mounting are available.
- Two visible spots help adjusting the position of the curtain.
- Angle of the curtain is adjustable: 0-5 degree.
- Additional parameters can be adjusted by remote control.







LZR[®]-FLATSCAN SL^{recessed}

LZR[®]-FLATSCAN SL^{surface}

TECHNICAL SPECIFICATIONS

| Technology | LASER scanner, time-of-flight measurement |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Detection mode | Presence |
| Max. installation height | 4m (reflectivity 5%) |
| | 5m (reflectivity 8%) |
| Opening Angle | 90° |
| Angular resolution | 0.23° (400 spots within 90°) |
| Testbody | 700 mm x 300 mm x 200 mm (testbody CA according to EN 16005, height<4m) |
| Emission characteristics | Wavelength 905 nm; max. output pulse power 25 W (CLASS 1). |
| IR LASER | Wavelength 650 nm; max. output CW power 3 mW (CLASS 2) visible spots. |
| Supply voltage | 12 - 24V DC ± 15% |
| Power consumption | ≤ 2.2 W |
| Response time | Max. 90 ms |
| Output | 1 optocoupler (galvanic isolation - polarity free) |
| | Max. switching voltage: 42V AC / 60V DC |
| | Max. switching current: 100 mA |
| | 1 Relay (free of potential change-over contact) |
| | Max. contact voltage: 60V AC / 125V DC |
| | Max. contact current: 1A (resistive) |
| | Max. switching power: 30W (DC) / 60VA (AC) |
| LED - signals | 1 bi-coloured LED: detection / output status |
| Dimensions | Recessed version: 178 mm (L) × 85 mm (H) × 53 mm (D) Surface version: 168 mm (L) × 93 mm (H) × 42.5 mm (D) |
| Material - Colour | Recessed version: PC/ABS - Black Surface version: PC/ABS - Black - Aluminium |
| | 0° ~ +5° |
| Protection degree | IP54 (EN 60529) |
| Temperature range | -30° C ~ $+60^{\circ}$ C if powered |
| Humidity | 0-95 % non-condensing |
| Vibrations | < 2G |
| Conformity | EN 61000-4-3:2006 + A1:2008 + A2:2010 EN 61000-4-8:2010 EN 61000-4-16:2016 EN 61000-6-3:2007 + A1:2011 EN IEC 61000-6-2:2019 |
| | Specificatins are subject to change without prior notice. All values are measured in specific condition |

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