LZR®-FLATSCAN

SAFETY SENSOR FOR SWING DOORS

Commercial sheet



LASER TECHNOLOGY FOR YOUR DOOR

DESCRIPTION

The LZR*-FLATSCAN uses laser technology (time of flight measurement) for swing doors. It generates 70 or 170 measurement points (depending on the product version) to provide complete protection for the user, and is easy to install. Just one module per door side is enough to cover one complete door wing, regardless of its size.



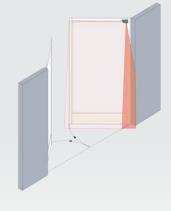
► INDEPENDENT OF FLOORING AND SURROUNDINGS

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



► 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.



► HINGE AREAS

The LZR*-FLATSCAN 170 offers a protection of 100 additional points, exclusively dedicated to detecting small objects in the door hinges.



L EDGES ARE SAFE

When the door is closing, the LZR*-FLATSCAN 170 extends its coverage beyond the door edges, for increased comfort.



► COMPACT IN SIZE

Thanks to its compact design, the LZR*-FLATSCAN (8 cm × 14,2 cm) can be used on all door types and facilitates the logistics.





APPLICATIONS

The sensor can be installed on the door wing in order to move with the door or fixed on the door frame. The sensor can be used for safety of swing doors, revolving doors, folding doors, pivoting

INSTALLATION

- Just one module is enough to cover 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.
- Double automatic teach-in: direct surroundings of the door and the type of floor.
- 2 covers available for installation on the left or right.
- Different colours available (aluminium/black/white). The cover can be fully painted.

VERSIONS

- LZR° -FLATSCAN 70: Laser sensor for safety of swing doors and revolving doors.
- LZR° -FLATSCAN 170: Laser sensor for safety of swing doors with a protection setting on the hinge and an extended area setting for securing the edge of the door.

TECHNICAL SPECIFICATIONS

| Technology | LASER scanner, time-of-flight measurement |
|--|--|
| Detection mode | Presence |
| Max. detection range | 4 m (diagonal) with reflectivity of 5% (i.e. : at $W = 1.5 \text{m} \rightarrow \text{max}$. H = 3,7 m) |
| Opening angle | Door wing protection : 90° / Hinge area* : 20° |
| Angular resolution | Door wing protection : 1,3°/ Hinge area* : 0,2° |
| Typ. min. object size Door wing protection Hinge area* | 10 cm @ 4m (in proportion to object distance) 2 cm @ 4m (in proportion to object distance) |
| Testbody | 700 mm \times 300 mm \times 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 | ≤2W |
| Response time | Door wing protection: max. 30 ms / Hinge area*: max. 60 ms |
| Output Max. switching voltage Max. switching current | 2 electronic relays (galvanic isolation - polarity free) 42V AC/DC 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° à +10° (without mounting bracket) |
| Protection degree | IP54 |
| Temperature range | -30°C to +60°C if powered |
| Humidity | 0-95 % non-condensing |
| Vibrations | <2G |
| Norm conformity | 2006/95/EC: LVD; 2002/95/EC: RoHS; 2004/108/EC: EMC; 2006/42/EC: MD; EN 12978: 2009; EN ISO 13849-1: 2008 PI "d"/ CAT2; EN 60529: 2001; IEC 60825-1: 2007; EN 60950-1: 2005; EN 61000-6-2: 2005; EN 61000-6-3: 2006; IEC 61496-1: 2009; EN 61496-3: 2008 ESPE Type 2; EN 62061: 2005 SIL 2; DIN 18650-1: 2010 Chapter 5.7.4 (testbody A); EN 16005:2012 Chapter 4.6.8 (testbody A) |

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

right without liability to change descriptions and specifications at any time. / Prices, shipping and

information from this document or the products to which the information refers.

availability are subject to change without prior notice.

Specifications are subject to change without prior notice.

*Only LZR *-FLATSCAN 170



Max. detection range 4 m (diagonal)

AUB Limited Unit A, 12/F, Hung Mou Industrial Building, 62 Hung To Road, Kwun Tong,

: +852 2375 6110 Fax : +852 2406 2602 Email: enquirv@aub.com.hk www.aub.com.hk

Kowloon, Hong Kong