

LZR[®]-P220

SAFETY SENSOR FOR REVOLVING DOORS

Commercial sheet



SAFETY OF THE CLOSING EDGE

DESCRIPTION

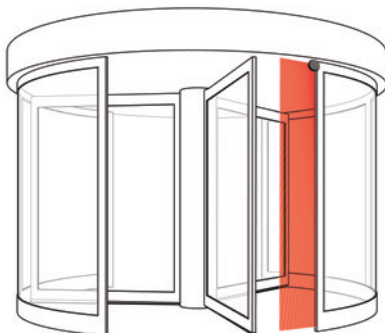
The laser sensor **LZR[®]-P220** guarantees safety of people in the pinch zone of revolving doors.

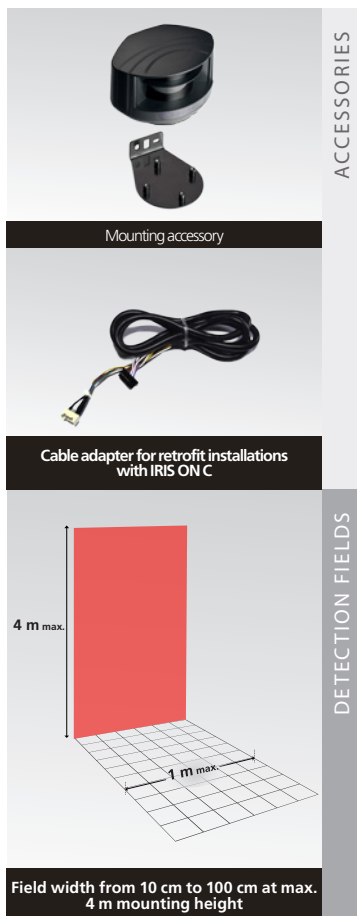


IN PRACTICE

- 1 high resolution laser curtain with a digitally adjustable tilt angle (274 points every 66 ms, tilt angle of 0°, 2°, 4°, 6°).
- Detection field: gradually adjustable width from 10 cm to 100 cm, maximum height of 5 m.
- Conformity with standards and European regulations.
- No reflectivity interferences as a result of time-of-flight technology.
- Customized detection field thanks to point-to-point teach-in (6 points every 10 cm at 2.5m mounting height).
- Optimized for outside applications through rain and snow filters and an internal heating system.

LZR-P220 ■





ACCESSORIES

DETECTION FIELDS

APPLICATIONS

- Safety of the closing edge of revolving doors.

EASE OF INSTALLATION

- User-friendly angle adjustment of the detection zone with the help of 3 visible laser beams.
- Automatic teach-in of the detection field launched by one push on the remote control.
- Easy configuration of the sensor thanks to the universal BEA remote control.

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time-of-flight measurement
Detection mode	Presence
Max. detection range	5 m x 1 m (at max. 4 m according to DIN 18650)
Remission factor	> 5 %
Target size	DIN 18650 test body CA: 700 mm x 300 mm x 200 mm DIN 18650 test body CB: Ø 50 mm (at max. 4 m)
Emission characteristics	IR LASER Wavelength 905 nm; max. output pulse power 75 W; Class 1 Red visible LASER Wavelength 650 nm; max. output CW power 3 mW; Class 3R
Supply voltage	10-35V DC @ sensor side
Power consumption	< 5 W
Peak current at power-on	2.2 A (max. 22 ms @ 24 V)
Response time	Typ. 80 ms - max. 150 ms
Output	1 output NO or NC (galvanic isolated - polarity free) Max. switching voltage 35 V DC / 24V AC Max. switching current 80 mA (resistive)
Monitoring input	1 optocoupler (galvanic isolated - polarity free) Max. contact voltage 30 V DC (over-voltage protected) Voltage threshold Log. H: >8 V DC; Log. L: <3 V DC
LED-signals	1 blue LED: power-on status 1 orange LED: error status 1 bi-coloured LED: detection/output status
Dimensions	125 mm (L) x 93 mm (D) x 70 mm (H) (mounting bracket + 14 mm)
Material	PC/ASA (colour : black)
Mounting angles on bracket	-45°, 0°, 45°
Rotation angles on bracket	-5° to +5° (lockable)
Tilt angles on bracket	-3° to +3°
Protection degree	IP65
Temperature range	-30 °C to +60 °C if powered; -10°C to +60°C unpowered
Humidity	0-95 % non-condensing
Vibrations	< 2 G (if powered)
Pollution on front screens:	Max. 30%; homogenous
Accessories	LBA, LZR-P220 RETROFIT CABLE
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 PL «d» / CAT2; EN 60529:2001 IP 65; IEC 60825-1:2007 Laser Class 1 & 3R; EN 60950-1:2005; EN 61000-6-2:2005 EMC - Industrial level; EN 61000-6-3:2006 EMC - Commercial level; IEC 61496-1:2009; EN 61496-3:2008 ESPE Type 2; EN 62061:2005 SIL 2; DIN 18650-1:2010 Chapter 5.7.4

Specifications are subject to change without prior notice.

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