

# LZR®-FLATSCAN REV-PZ

## SAFETY SENSOR FOR REVOLVING DOORS

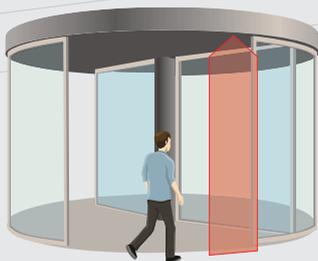
Commercial sheet



### THE COMPACT AND OPTIMAL DISCRETION SOLUTION

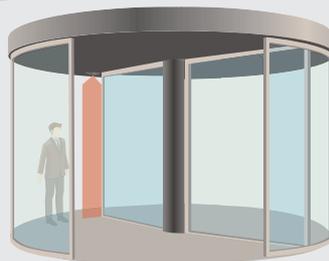
#### DESCRIPTION

**LZR®-FLATSCAN REV-PZ** is a compact premium laser safety sensor with time-of-flight technology for automatic revolving doors, 400 measurement spots provide very high detection precision and not be affected by light.



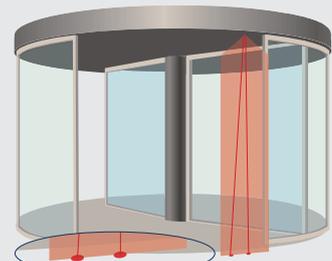
#### ▶ PINCH ZONE SAFETY

The **LZR®-FLATSCAN REV-PZ** on the ceiling of a door which detection range effectively covers the entire pinch zone, provides precise protection for the pedestrian during the closing process.



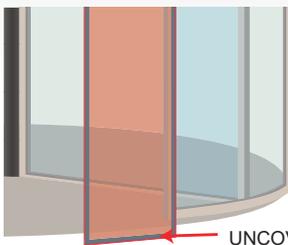
#### ▶ LEADING DOOR LEAF SAFETY

The **LZR®-FLATSCAN REV-PZ** on the pathway of a door secures the safety of pedestrian in the detection filed.



#### ▶ VISIBLE SPOT

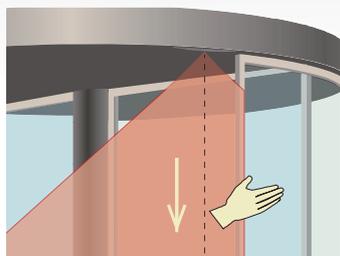
Two visible spots indicate the position of the curtain, it makes the curtain adjustment more quick and accurate.



UNCOVERED ZONE

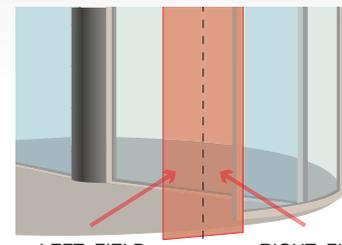
#### ▶ UNCOVERED ZONE

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



#### ▶ DETECTION FIELD DEFINITION BY HAND MOVEMENT

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



LEFT FIELD

RIGHT FIELD

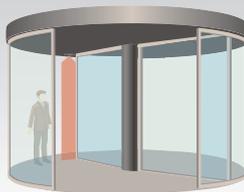
#### ▶ OUTPUT DEFINITION

Two different output relays can be flexibly matched with detection fields ( left/right field ) to achieve various functions.

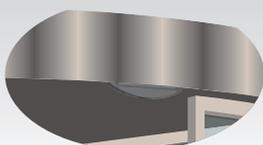




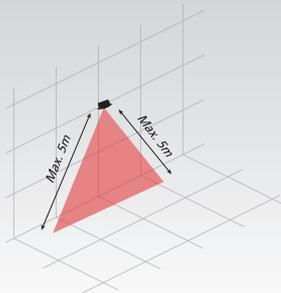
Protection of revolving door  
Pinch zone



Protection of revolving doors  
Leading door leaf



Ceiling mounting



Max. detection range 5 m (diagonal)

## 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.

## TECHNICAL SPECIFICATIONS

<b>Technology</b>	LASER scanner, time-of-flight measurement
<b>Detection mode</b>	Presence
<b>Max. detection range</b>	4m ( diagonal ) with reflectivity of 5% 5m ( diagonal ) with reflectivity of 8%
<b>Opening Angle</b>	90°
<b>Angular resolution</b>	0.23° ( 400 spots within 90° )
<b>Testbody</b>	700 mm × 300 mm × 200 mm (testbody CA) according to EN 16005 & DIN 18650, <4m; 50mm cylinder (testbody CB) according DIN18650 <3.5m height.
<b>Emission characteristics IR LASER</b>	Wavelength 905 nm; max. output pulse power 25 W ( CLASS 1 ) . Wavelength 650 nm; max. output CW power 3 mW ( CLASS 3R ) visible spots.
<b>Supply voltage</b>	12-24V DC ± 15%
<b>Power consumption</b>	≤ 2.2 W
<b>Response time</b>	Max. 90 ms
<b>Output</b>	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: 1.0A ( resistive ) Max. switching power: 30W ( DC ) / 60VA ( AC )
<b>LED-signals</b>	1 bi-coloured LED: detection / output status
<b>Dimensions</b>	178 mm (L) × 85 mm (H) × 53 mm (D)
<b>Material - Colour</b>	PC/ABS - Black
<b>Tilt angles</b>	0° to +5°
<b>Protection degree</b>	IP54 ( EN 60529 )
<b>Temperature range</b>	-30°C to +60°C if powered
<b>Humidity</b>	0-95% non-condensing
<b>Vibrations</b>	< 2 G
<b>Norm conformity</b>	EN 12978; EN ISO 13849-1 PI "d"/ CAT2; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 ( testbody CA & testbody CB ); EN16005 Chapter 4.6.8 ( testbody CA )

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

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