LZR®- RS310

3-DIMENSIONAL SAFETY SOLUTION FOR PLATFORM SCREEN DOORS

Commercial sheet



THE CONVENIENT SAFETY SOLUTION

DESCRIPTION

The LZR®-RS310 is a LASER-based 3D safety solution, designed to monitor the area between the platform screen door and the railway vehicle door.

Very compact and competitive LASER safety sensor for this application.

Easy plug and go installation.



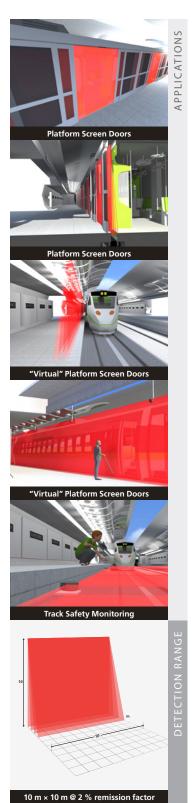
PERFORMANCE

- Technology: time of flight measurement.
- Norm conformity: EN13849-1 PL"C"; EN 954-1 Cat.2; EN 62061 SIL2.
- Detection range typical (@ 2% remission factor): $10 \text{ m} \times 10 \text{ m}$.
- Detectable object size: typically down to 50 mm × 50 mm.
- Convenient alternative to light grids and infrared solutions.
- LZR®-RS310 produces 4 planes to cover a given area in height, width and depth.
- Time of flight technology combined with a dedicated software guarantees an intrinsic immunity to environmental disturbances: sunlight, rain, snow, dust, etc.
- Integrated heating system.



LZR®-RS310 ■





APPLICATIONS

- Monitoring of the area between the platform screen door and the railway vehicle door.
- Track safety monitoring.
- Virtual platform screen doors.

EASE OF INSTALLATION

- For easy installation, 3 visible red LASER beams can be activated to align the detection surface and adjust the tilt and rotation angles.
- Teach-in function: self-learning of the environment and background with automatic adjustment of the detection planes.
- Remote control to easily set the adjustable parameters.

TECHNICAL SPECIFICATIONS

Technology	LASER scanner, time of flight measurement
Detection mode	Presence
Max. detection range @ 2% remission factor	10 m × 10 m
Remission factor	> 2 %
Size of target	200 mm @ 10 m
Emission characteristics IR LASER	Wavelength 905 nm; max. output pulse power 75 W
Supply voltage	10-35V DC @ sensor terminal
Power consumption	< 5 W
Peak current at power-on	1.8 A (max. 80 ms @ 35 V)
Response time	Typ. 20 ms; max. 80 ms
Output Max. switching voltage Max. switching current	2 electronic relays (galvanic isolation - polarity free) 35V DC / 24V AC 80 mA (resistive)
Monitoring input Max. contact voltage Voltage threshold	1 optocoupler (galvanic isolated - polarity free) 30 V DC (over-voltage protected) Log. H: > 8 V DC ; Log. L: < 3 V DC
LED signals	1 blue LED: power-on status 1 orange LED: error status 2 bicoloured LEDs: detection/output status (green LED: no detection; red LED: detection)
Dimensions	125 mm (L) × 93 mm (D) × 70 mm (H) (with 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 (avoid direct exposure to high pressure cleaning)
Temperature range	-30°C to +60°C powered ; -10 °C to +60 °C unpowered
Humidity	0-95 % non-condensing
Vibrations	< 2 G
Pollution on front screens	max. 30 %; homogenous
Expected lifetime	designed for a lifetime of min. 8 years
Norm conformity	2006/95/EC: LVD; 2004/108/EC: EMC; 2002/95/EC: RoHS; EN 60825-1; EN 60950-1; EN 60529; IEC60825; EN 61000-6-2: EMC - Industrial level; EN 61000-6-3: EMC - Commercial Level ; EN 62061:2005 SIL2; EN 954-1 Cat. 2; EN ISO 13849-1 PL "C" - Cat. 2, EN 61496-3 type II

Specifications are subject to change without prior notice.

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