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 <u>safety</u> 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 m × 10 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





10 m × 10 m @ 2 % remission factor

A P P L I C A T I O N S

- 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

Presence 10 m × 10 m > 2 % 200 mm @ 10 m Wavelength 905 nm; max. output pulse power 75 W 10-35V DC @ sensor terminal
> 2 % 200 mm @ 10 m Wavelength 905 nm; max. output pulse power 75 W
200 mm @ 10 m Wavelength 905 nm; max. output pulse power 75 W
Wavelength 905 nm; max. output pulse power 75 W
10-35V DC @ sensor terminal
< 5 W
1.8 A (max. 80 ms @ 35 V)
Typ. 20 ms; max. 80 ms
2 electronic relays (galvanic isolation - polarity free) 35V DC / 24V AC 80 mA (resistive)
1 optocoupler (galvanic isolated - polarity free) 30 V DC (over-voltage protected) Log. H: > 8 V DC ; Log. L: < 3 V DC
1 blue LED : power-on status 1 orange LED : error status 2 bicoloured LEDs : detection / output status (green LED : no detection; red LED : detection
125 mm (L) × 93 mm (D) × 70 mm (H) (with mounting bracket + 14 mm)
PC/ASA (colour: black)
-45°, 0°, 45°
-5° to +5° (lockable)
-3° to +3°
IP65 (avoid direct exposure to high pressure cleaning)
-30°C to +60°C powered ; -10 °C to +60 °C unpowered
0-95 % non-condensing
< 2 G
max. 30 %; homogenous
designed for a lifetime of min. 8 years
EMC 2014/30/EU; LVD 2014/35/EU; MD 2006/42/EC; ROHS 2 2011/65/EU; EN 60825-1; EN 60950-1 ; EN 60529 ; IEC60825 ; EN 61000-6-2 ; EN 61000-6-3 EN 62061SIL2 ; 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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