

Safety laser scanner RSL 200

For securing of AGVs and AMRs

Safety at Leuze



With their dimensions of 80 x 80 x 86 mm, the compact RSL 200 safety laser scanners take up very little space and can therefore also be perfectly integrated into small AGVs and AMRs. With a 275° scanning angle, two scanners provide all-round protection for a vehicle.

Your benefits at a glance

- Low space requirement: with a height of just 80 mm and a footprint of 80 x 86 mm, the devices can be perfectly integrated even in compact AGVs and AMRs
- Low energy consumption
- Up to 32 switchable field sets for dynamic adaptation to Reliable operation: Insensitive against shocks and vibrations
- Easy and space-saving integration thanks to standard
- M12 connection with rotatable plug
- Quick access to status information and easy diagnostics with the RSL 200 app

Features

Technical data	Safety	Type 3, PL d, SIL 2
	Range	Protective field: 3 m / Warning field: 15 m
	Scan angle	275°
	Resolution	70 mm, 50 mm
	Field sets (1 protective and 2 warning fields)	8 (RSL 220) 32 (RSL 230/235)
	Measurement value output	Distance and signal strength via UDP, Range 25 m, Resolution 0,2°, ROS driver (version 1 and 2)
	Connector	M12 connector, 8-pin (RSL 220) M12 connector, 12-pin (RSL 230/235) Measurement value output: Ethernet TCP / IP, M12 connector, 4-pin (RSL 230/235)
	Dimension (W x H x D)	80 x 80 x 86 mm
Temperature range	0 ... +50°C	
Features	Configuration and diagnostics via USB and Bluetooth, with RSL 230/235 additionally via TCP / IP. Exchangeable configuration memory.	
	RSL200 app for quick access to status information and simple diagnostics	
	Space-saving bracket for easy alignment	

Ideal for compact vehicles



With their small dimensions of 80 mm height on an 80 x 86 mm footprint, the RSL 200 is ideal for securing compact for securing compact vehicles. The devices have a scanning angle of 275° and a range of 3 m. This means that vehicles can be completely secured with two scanners.

The RSL 200 is insensitive to shocks and vibrations. For precise scanning, the devices use a mirrored polygon wheel with a very low polygon wheel with a very low mass, which generates a uniform laser spot with a fixed orientation over the entire scanning range. This makes the devices insensitive in operation.

Flexibly secured – simply integrated



Up to 96 configurable fields allow flexible adaptation adaptation to the speed and direction of travel of the vehicle. Switching takes place as 3-field sets (triples), each consisting of a protective field and two warning fields. This means that up to 32 customized configurations are available.

The RSL 200 is connected via a rotatable M12 connector – in 8-pin or 12-pin versions, depending on the functionality of the device. Thanks to the Easy I/O concept all functions, including protective field switching, can be controlled and evaluated via this connection. This makes integrating the devices particularly easy.

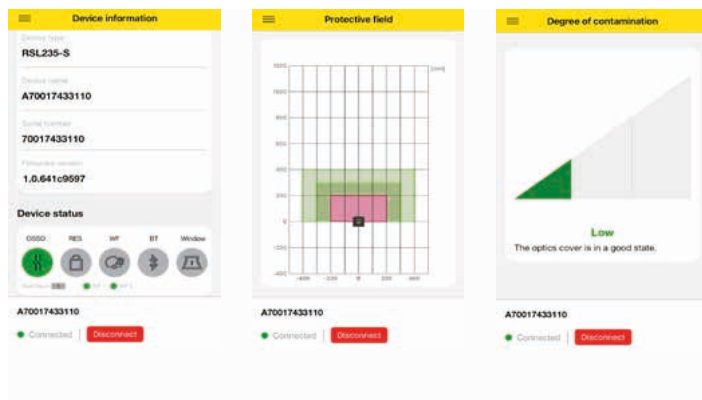
Optimized for minimum space requirements



With the bracket specially developed for the RSL 200, the devices can be easily aligned horizontally and vertically.

Here too, the design is optimized for minimum space requirements and the devices can be easily replaced with just four screws for servicing, without the need for realignment. And with the exchangeable configuration memory, the configuration can be configuration is quickly and easily transferred to the new device.

Quick diagnostics with the RSL 200 app



The RSL 200 app enables easy access to status information and diagnostic data via Bluetooth - even if the RSL 200 is installed in areas that are difficult to see or access to the device is restricted. Bluetooth remote access does not affect machine availability. is not impaired. All messages are displayed in plain text and can also be sent directly to Leuze Service if required.