



# RSL 400 PROFISAFE

Safety laser scanner with operating range of up to 8.25 m and 4 protection zones

*integrated* connectivity.



# SIMPLY SAFE

## Safe network integration with PROFI-safe / PROFINET

The RSL 400 PROFI-safe with PROFINET interface can easily be integrated in industrial networks. In addition to safe communication, this enables diagnostics and configuration via central access points. Integration is quick and reliable thanks to the use of standardized connection technology.

- Integrated 2-port switch for use in star, line and ring topologies
- Supports PROFINET Conformance Class C and Isochronous Real Time communication (IRT)
- Enables parallel access of standard and safety PLCs for minimizing the data load on the expensive safety PLC



Scanner head with PROFI-safe function

Connection unit with integrated PROFINET switch

Intelligently solved:

- Removable connection unit with integrated PROFINET switch allows the scanner to be replaced without interrupting the network
- Lateral cable entry and M12 connectors for minimum installation height



PROFINET connection unit with M12 connectors for 2-port switch and power supply



AIDA-compliant PROFINET connection unit for copper or fiber optic cable with push-pull connectors

## Outstanding for danger zone safeguarding

The RSL 400 is characterized by its large scanning range and reliable operation, even under demanding environmental conditions. With operating ranges of up to 8.25 meters, a scanning angle of 270 degrees and the simultaneous monitoring of four protective fields, it solves many tasks that previously required multiple scanners.

- Operating range of up to 8.25 m and 270° scanning angle for covering even large areas with one device
- Especially resistant to particles through 0.1° angular resolution (approx. 3x higher sampling rates than with conventional scanners)
- Monitoring of up to 4 protective fields



Easy integration and diagnostics for stationary applications

## Up to 100 protective fields for maximum flexibility

Integration via PROFINET is especially advantageous in applications that require switching between many different protective- and warning-field configurations. Wiring is comfortably performed with just a single cable. Thanks to the especially large number of switchable field configurations, the RSL 400 always enables optimum adaptation to different movement pattern or size of loads.

- 100 switchable field pairs or 50 switchable 4-field sets allow for optimum adaptation to the movement situation
- Safe speed reduction through parallel monitoring of up to 4 protective fields



Flexible adaptation of the protective fields with automated guided vehicles (AGVs)

# TECHNICAL DATA

Tasks	RSL 420P	RSL 450P
<b>Monitoring / Function</b>		
Protective field range	3.00 m – 4.50 m – 6.25 m – 8.25 m	
Scanning angle / angular resolution	270° / 0.1°	
Object resolution	30 mm, 40 mm, 50 mm, 60 mm, 70 mm, 150 mm	
Parallel protective fields	1	4
Switchable field pairs / 4-field sets	10 / 10	100 / 50
Parameter sets for safety settings	1	10
Data output, configurable	–	X
<b>PROFIsafe / PROFINET</b>		
Switch	2-port real-time switch, IRT-capable acc. to IEEE 802	
Port properties	100 Base-TX, Auto-Negotiation, Auto-Crossover, Auto-Polarity	
Conformity	PROFINET IO Conformance Class C	
Supported topologies	SNMP, MRP client	
GSDML	Corresponds to GSDML specification V2.3	
<b>Connections / dimensions</b>		
Connection unit CU400P-3M12	2x M12 for Ethernet switch 1x M12 for power supply	
Connection unit CU400P-AIDA / CU400P-AIDA-OF	Ethernet switch: 2x RJ45 push-pull / 2x SCRJ push-pull 2x 24V push-pull for power supply	
Dimensions (W x H x D)	140 x 169 x 140 mm (with CU400P-3M12) 140 x 201 x 140 mm (with CU400P-AIDA/-OF)	