



the sensor people





Figure can vary

Part no.: 53800106 RSL420-M Safety laser scanner











Contents

- Technical data
- · Dimensioned drawings
- Operation and display
- Notes
- Accessories



Technical data

Basic data			
Series	RSL 400		
Application	Mobile danger zone guarding Mobile side guarding Stationary access guarding Stationary danger zone guarding		
Functions			
Functions	Dynamic contactor monitoring (EDM), selectable		
runcuons	E-stop linkage Four-field mode Resolution, selectable		
Characteristic parameters			
Туре	3 , IEC/EN 61496		
SIL	2 , IEC 61508		
SILCL	2 , IEC/EN 62061		
Performance Level (PL)	d , EN ISO 13849-1		
PFHD	9E-08 per hour		
Mission time T _M	20 years , EN ISO 13849-1		
Category	3 , EN ISO 13849		
Protective field data			
Scanning angle	270 °		
Minimum adjustable range	50 mm		
Number of field pairs, reversible	10		
Number of quads, reversible	10		
Number of protective functions	1 Piece(s)		
Number of independent sensor configurations	1		
Diffuse reflection, min.	1.8 %		
Operating range	0 4.5 m		
Warning field data			
Number of field pairs	10		
Operating range	0 20 m		
Object size	150 mm x 150 mm		
Diffuse reflection, min.	10 %		
Optical data			
Light source	Laser , Infrared		
Laser light wavelength	905 nm		
Laser class	1 , IEC/EN 60825-1:2007		
Transmitted-signal shape	Pulsed		
Repetition frequency	90 kHz		
Measurement data			
Distance resolution	1 mm		
Detection range	0 50 m		
Diffuse reflection	20 %		

0.1°

Angular resolution



Perforance data Perforance data Supply voltage by 24 Y, DC -30 20 % Current consumption (without load), max. 700 mA, (use power supply unit with 3 A) Power consumption, max 4. 17 W, For 24 V, plus output load Outputs Number of safety-related switching outputs (OSSDs) 2 Piece(s) Safety-related switching outputs Type Safety-related switching outputs (OSSDs) Safety-related switching outputs 7 Type Safety-related switching output 0 DC Safety-related switching output 1 Solutioning voltage low, max. 2 V Voltage type DC Safety-related switching output 1 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching olement Transistor , PNP Safety-related switching output 2 Switching output 2 Switching output 3 Safety-related switching output 4 S	Electrical data	
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Net weight 2,000 g Housing color Yellow, RAL 1021 Type of fastening Mounting plate Through-hole mounting Via optional mounting device Operation and display Type of display Alphanumerical display LED indicator	Housing material	
Housing color Yellow, RAL 1021 Type of fastening Mounting plate Through-hole mounting Via optional mounting device Operation and display Type of display Alphanumerical display LED indicator	Lens cover material	Plastic/PC
Type of fastening Mounting plate Through-hole mounting Via optional mounting device Operation and display Type of display Alphanumerical display LED indicator	Net weight	2,000 g
Through-hole mounting Via optional mounting device Operation and display Type of display Alphanumerical display LED indicator	Housing color	Yellow, RAL 1021
Type of display Alphanumerical display LED indicator	Type of fastening	Through-hole mounting
Type of display Alphanumerical display LED indicator		
LED indicator	Operation and display	
Number of LEDs 3 Piece(s)	Type of display	
	Number of LEDs	3 Piece(s)



Type of configuration	Software Sensor Studio
Operational controls	Software Sensor Studio

Environmental data	
Ambient temperature, operation	0 50 °C
Ambient temperature, storage	-20 60 °C
Relative humidity (non-condensing)	15 95 %

Certifications	
Degree of protection	IP 65
Protection class	III , EN 61140
Certifications	c TÜV Süd US c UL US TÜV Süd
Test procedure for EMC in accordance with standard	DIN 40839-1/3 EN 61496-1
Test procedure for oscillation in accordance with standard	EN 60068-2-6
Test procedure for continuous shock in accordance with standard	IEC 60068-2-29
US patents	US 2016/0086469 A US 7,656,917 B US 7,696,468 B US 8,520,221 B

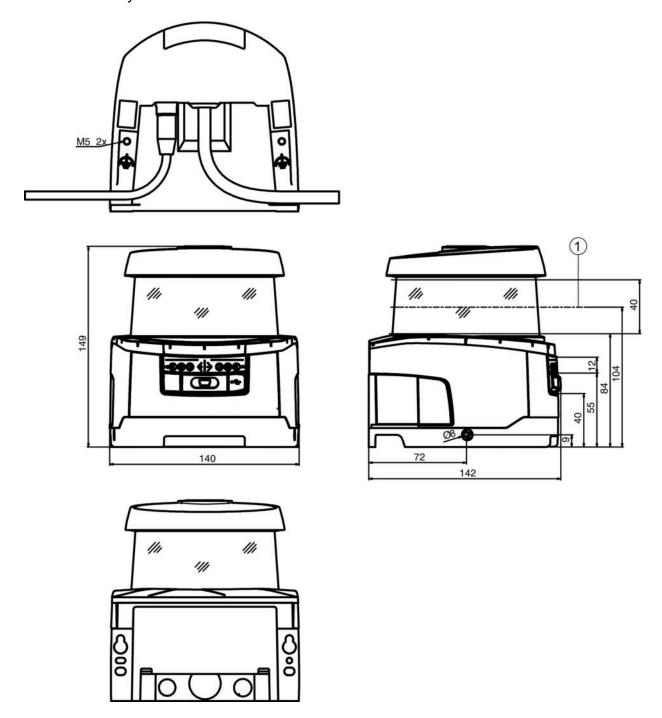
Classification	
Customs tariff number	85365019
eCl@ss 8.0	27272705
eCl@ss 9.0	27272705
ETIM 5.0	EC002550
ETIM 6.0	EC002550

Dimensioned drawings

All dimensions in millimeters



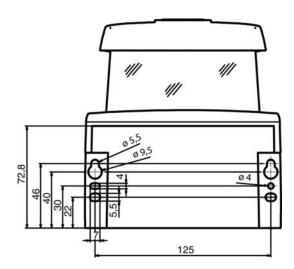
Dimensions safety laser scanner with connection unit



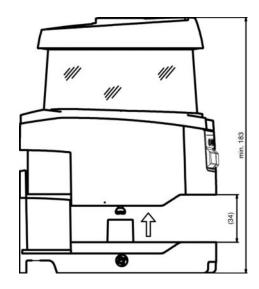
1 Scan level



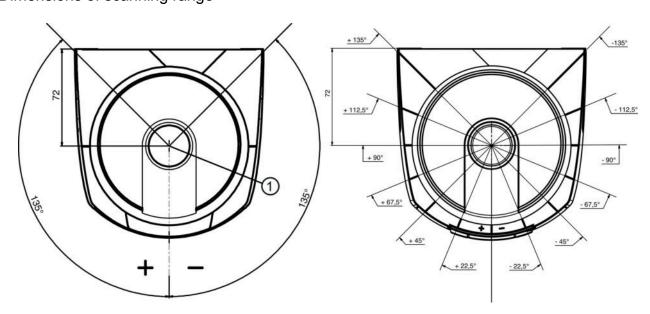
Mounting dimensions safety laser scanner with connection unit



Minimum space requirements for installation and replacement of scanner unit



Dimensions of scanning range





1 Reference point for distance measurement and protective field radius

Operation and display

LEDs

LED	Display	Meaning
1	Off	Device switched off
	Red, continuous light	OSSD off
	Red, flashing	Error
	Green, continuous light	OSSD on
2	Off	RES deactivated or RES activated and released
	Yellow, flashing	Protective field occupied
	Yellow, continuous light	RES activated and blocked but ready to be unlocked - protective field free and linked sensor is enabled if applicable
3	Off	Free warning field
	Blue, continuous light	Warning field interrupted

Notes

Observe intended use!

- · The product may only be put into operation by competent persons.
- · Only use the product in accordance with its intended use.

WARNING! INVISIBLE LASER RADIATION - LASER CLASS 1

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of **laser class 1** as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- Observe the applicable statutory and local laser protection regulations.
- The device must not be tampered with and must not be changed in any way.
 There are no user-serviceable parts inside the device.
 Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Accessories

Connection technology - Connection boxes

Part no.	Designation	Article	Description
53800119	CU416-10000	Connection unit	Number of connections: 2 Piece(s) Connection 1: Cable, 10,000 mm, PVC, 16 -wire Connection 2: Connector, M12, D-coded, 5 -pin Dimensions: 140.2 mm x 72.8 mm x 140.3 mm Color: Black Type of fastening: Bayonet system

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
5	53800132	BTF815M	Mounting bracket	Application: Mounting bracket for floor mounting Dimensions: 186 mm x 120 mm x 288 mm Scan level height: 150 mm Color: Yellow, RAL 1021 Type of fastening, at system: Through-hole mounting Type of fastening, at device: Screw type Material: Metal

Mounting technology - Other

	Part no.	Designation	Article	Description
6.11.	53800130	BTU800M	Mounting system	Dimensions: 54.5 mm x 90 mm x 192 mm Color: Black Type of fastening, at system: Through-hole mounting Type of fastening, at device: Screw type Material: Metal

Services

	Part no.	Designation	Article	Description
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S981051	CS40-I-141	Safety inspection "Safety laser scanners"	Details: Checking of a safety laser scanner application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.
(@	S981047	CS40-S-141	Start-up support	Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: Max. 3 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.