

Technical data sheet Light curtain receiver

Part no.: 50131337

CSL505-R25-975-M8

Figure can vary

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Technical data



Basic data

Series	505
Operating principle	Throughbeam principle
Device type	Receiver
Application	Precise object detection

Special design

Crossed-beam scanning
Diagonal-beam scanning
Parallel-beam scanning
Teach input
Warning output

Optical data

Operating range	Guaranteed operating range
Operating range	0.3 5 m
Measurement field length	975 mm
Number of beams	40 Piece(s)
Beam spacing	25 mm
Measurement data	

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Minimum object diameter	27.5 mm
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Electrical data

Protective circuit	Inductive protection
	Polarity reversal protection
	Short circuit protected

Performance data

Supply voltage U _B	18 30 V, DC

Outputs

Number of digital switching outputs 2 Piece(s)

Switching outputs

Switching output 1		
Switching element	Transistor, Push-pull	
Switching principle	Light/dark reversible	
Switching output 2		
Switching element	Transistor, Push-pull	
Switching principle	Light/dark reversible	

Timing

Cycle time	44 ms
Response time per beam	1,000 µs

Connection

Number of connections	1 Piece(s)
Connection 1	
Function	Signal OUT
	Teach input
	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	10 mm x 1,050 mm x 27 mm
Housing material	Metal, Aluminum
Lens cover material	Plastic
Housing color	Silver
Type of fastening	Through-hole mounting

Operation and display

Type of display	LED
Number of LEDs	2 Piece(s)
Type of configuration	Software
	Via nin assignment

Environmental data

Ambient temperature, operation	-30 50 °C
Ambient temperature, storage	-40 65 °C

Certifications

Degree of protection	IP 65
Protection class	III
Standards applied	EN 60947-5-2 (German version)

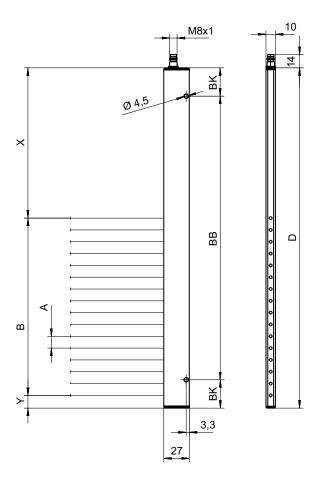
Classification

Customs tariff number	90314990	
eCI@ss 8.0	27270910	
eCI@ss 9.0	27270910	
ETIM 5.0	EC002549	
FTIM 6.0	FC002549	

Dimensioned drawings

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All dimensions in millimeters



Observe the exact dimensions in the chapter "Technical data, dimensioned drawings" in the operating instructions.

Electrical connection

Connection 1

Function	Signal OUT
	Teach input
	Voltage supply
Type of connection	Connector
Thread size	M8
Туре	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	V+
2	OUT 1 / Teach-in / Warning output
3	GND
4	OUT 2



Operation and display



Display LED 1	Display LED 2	Meaning
Off	Off	Off
Red, continuous light	Red, continuous light	Operational readiness
Red, continuous light	Off	Object detected
Red, flashing	Red, continuous light	Ready with minor error
Red, flashing	Off	Object detected with minor error
Red, double flash	Off	Configuration error
Red, flashing in phase	Red, flashing in phase	Serious error A
Red, flashing out of phase	Red, flashing out of phase	Serious error B
Red, continuous light	Red, double flash	Teach event successful

Suitable transmitters

Part no.	Designation	Article	Description
50131393	CSL505-T25-975-M8	Light curtain transmitter	Application: Precise object detection Special design: Diagonal-beam scanning, Crossed-beam scanning, Parallel- beam scanning Operating range: 0.3 5 m Connection: Connector, M8, 4 -pin

Part number code

Part designation: CSL505-XYYY-ZZZZ-AA

Operating principle T: transmitter R: receiver
Beam spacing 05: 5 mm 12.5: 12.5 mm 25: 25 mm 50: 50 mm 100: 100 mm
Measurement field length Measurement field length [mm], dependent on beam spacing
Electrical connection M8: M8 connector, 4-pin (plug)

Note



 $\ ^{\mbox{\tiny b}}\ \mbox{A list with all available device types can be found on the Leuze website at www.leuze.com.}$

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
W	50130850	KD U-M8-4A-V1-050	Connection cable	Connection 1: Connector, M8, Axial, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Accessories



Part no.	Designation	Article	Description
50130871	KD U-M8-4W-V1-050	Connection cable	Connection 1: Connector, M8, Angled, Female, 4 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Configuration devices

	Part no.	Designation	Article	Description
St.	50132069	CSL505-Interface	Module	Connection: Sub-D Functions: Configuration and test device

Note



🔖 A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.