



the sensor people



Part no.: 50131321 CSL505-R12.5-288-M8 Light curtain receiver





A Second second

Figure can vary

Contents

- Technical data
- . Dimensioned drawings
- · Electrical connection
- · Operation and display
- Suitable transmitters
- · Part number code
- Accessories



Technical data

Basic data	
Series	505
Operating principle	Throughbeam principle
Device type	Receiver
Application	Precise object detection
Special design	
	Crossed-beam scanning
Special design	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	288 mm
Number of beams	24 Piece(s)
Beam spacing	12.5 mm
Measurement data	
	15 mm
Minimum object diameter	15 mm
Plantical data	
Electrical data	Industrius protection
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	28 ms
Response time per beam	1,000 µs
	1,000 μs
Connection Number of connections	1,000 μs 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	

Cubic
10 mm x 350 mm x 27 mm
Metal , Aluminum
Plastic
Silver
Through-hole mounting
_

Operation and display		
Type of display	LED	
Number of LEDs	2 Piece(s)	
Type of configuration	Software Via pin assignment	

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

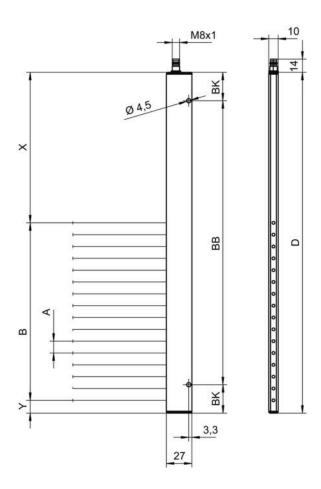
Certifications	
Degree of protection	IP 65
Protection class	III
Standards applied	EN 60947-5-2 (German version)

Classification		
Customs tariff number	90314990	
eCl@ss 8.0	27270910	
eCl@ss 9.0	27270910	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	

Dimensioned drawings

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

LEDs

Display LED 1 Display LED 2		Meaning	
Off	Off	Off	
Red, continuous light	Red, continuous light	Operational readiness	
Red, continuous light	ontinuous 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
50131377	CSL505-T12.5-288-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

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

Note					
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
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
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

	Part no.	Designation	Article	Description
To provide the state of the sta	50132069	CSL505-Interface		Connection: Sub-D Functions: Configuration and test device

Note

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