



the sensor people



Part no.: 50131337 CSL505-R25-975-M8 Light curtain receiver





Figure can vary

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## **Technical data**

Basic data	
Series	505
Operating principle	Throughbeam principle
Device type	Receiver
Application	Precise object detection
Chaoial daoign	
Special design	Crossed beam econning
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	
Minimum object diameter	27.5 mm
Electrical data	
Protective circuit	Inductive protection Polarity reversal protection Short circuit protected
Performance data	
Supply voltage U <sub>B</sub>	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	

Cubic	Cubic	
10 mm x 1,050 mm x 27 mm		
Metal , Aluminum	Metal , Aluminum	
Plastic		
Silver		
Through-hole mounting	Through-hole mounting	
	10 mm x 1,050 mm x 27 mm  Metal , Aluminum  Plastic  Silver	

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	

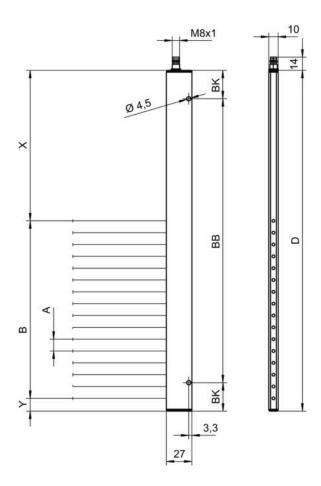
Certifications	
Degree of protection	IP 65
Protection class	III
Standards applied	EN 60947-5-2 (German version)

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	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	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
A loss deliminarios de la companya d	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.