SMART SENSOR BUSINESS

Leuze electronic

the sensor people



Part no.: 50131329 CSL505-R25-175-M8 Light curtain receiver



Figure can vary

Contents

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

Part no.: 50131329 – CSL505-R25-175-M8 – Light curtain receiver

Technical data

Basic data	
Series	505
Operating principle	Throughbeam principle
Device type	Receiver
Application	Precise object detection
Special design	
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	175 mm
Number of beams	8 Piece(s)
Beam spacing	25 mm
Manual data	
Measurement data	07.5 mm
Minimum object diameter	27.5 mm
Electrical data	
Protective circuit	Inductive protection Polarity reversal protection Short circuit protected
Performance data	
Supply voltage UB	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	12 ms
Response time per beam	1,000 µs
Connection	
Number of connections	1 Piece(s)
	111000(0)

Leuze electronic

Part no.: 50131329 – CSL505-R25-175-M8 – Light curtain receiver

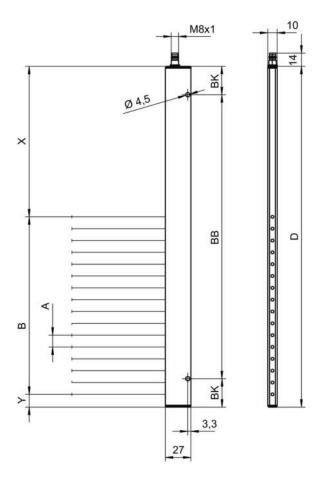
Silver Through-hole mounting		
LED 2 Piece(s)		
Software Via pin assignment		
111		
)		
90314990 27270910		
27270910		

Dimensioned drawings

All dimensions in millimeters

▲ Leuze electronic

Part no.: 50131329 – CSL505-R25-175-M8 – Light curtain receiver



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	



Part no.: 50131329 – CSL505-R25-175-M8 – Light curtain receiver

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
50131385	CSL505-T25-175-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	ZZ 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.

Part no.: 50131329 – CSL505-R25-175-M8 – Light curtain receiver

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
	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.