## Leuze

### **Technical data sheet** Light curtain receiver Part no.: 50131350 CSL505-R50-350-M8



The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com

Phone: +49 7021 573-0 • Fax: +49 7021 573-199

#### **Technical data**

# Leuze

1 Piece(s)

Signal OUT

Teach input Voltage supply

Connector

M8 Male

Metal

4 -pin A-coded

Cubic

Plastic

Silver

10 mm x 430 mm x 27 mm

Metal, Aluminum

#### Decis data

Basic data		Connection
Series	505	Number of connections
Operating principle	Throughbeam principle	
Device type	Receiver	Connection 1
Application	Precise object detection	Function
Special design		
Special design	Crossed-beam scanning	Type of connection
	Diagonal-beam scanning	Thread size
	Parallel-beam scanning	Туре
	Teach input	Material
	Warning output	No. of pins
	3	Encoding
Optical data		Mechanical data
Operating range	Guaranteed operating range	Design
Operating range	0.3 5 m	Dimension (W x H x L)
Measurement field length	350 mm	Housing material
Number of beams	8 Piece(s)	Lens cover material
Beam spacing	50 mm	Housing color
		Type of fastening
Measurement data		
Minimum object diameter	52.5 mm	Operation and display
Electrical data		Type of display
Protective circuit	Inductive protection	Number of LEDs
Protective circuit	Inductive protection	Type of configuration
	Polarity reversal protection	
	Short circuit protected	
Performance data		Environmental data
Supply voltage U <sub>B</sub>	18 30 V, DC	Ambient temperature, op
		Ambient temperature, sto
Outputs		
Number of digital switching outputs	2 Piece(s)	Certifications
		Degree of protection
Switching outputs		Protection class
Switching output 1		Standards applied
Switching element	Transistor, Push-pull	
Switching principle	Light/dark reversible	Classification
		Customs tariff number
Switching output 2		eCl@ss 8.0
Switching element	Transistor, Push-pull	eCl@ss 9.0
Switching principle	Light/dark reversible	ETIM 5.0
		ETIM 6.0
Timing		_

Type of fastening	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

EC002549 EC002549

#### Cycle time

Response time per beam

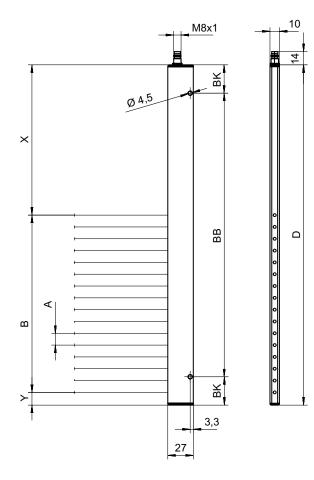
12 ms 1,000 µs

The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com Phone: +49 7021 573-0 • Fax: +49 7021 573-199

#### **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



Leuze

#### **Operation and display**

# Leuze

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
50131406	CSL505-T50-350-M8	Light curtain transmitter	Application: Precise object detection Special design: Diagonal-beam scanning, Crossed-beam scanning 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
6	✤ 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
	U/ Ő	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

## Leuze

	Part no.	Designation	Article	Description
۲	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
A Loss Annes A Loss Annes A Loss Annes A Loss Annes	50132069	CSL505-Interface	Module	Connection: Sub-D Functions: Configuration and test device

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