## Leuze

### **Technical data sheet** Light curtain receiver Part no.: 50131322 CSL505-R12.5-388-M8



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### **Technical data**

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#### Basic data

Basic data		Conne
Series	505	Numbe
Operating principle	Throughbeam principle	
Device type	Receiver	Cor
Application	Precise object detection	Fun
Special design		
Special design	Crossed-beam scanning	Туре
	Diagonal-beam scanning	Thre
	Parallel-beam scanning	Type
	Teach input	No.
	Warning output	Enc
Optical data		Mecha
Operating range	Guaranteed operating range	
Operating range	0.3 5 m	Design
Measurement field length	388 mm	Dimen
Number of beams	32 Piece(s)	Housin
Beam spacing	12.5 mm	Lens c
Measurement data		Housin Type o
Minimum object diameter	15 mm	Opera
Electrical data		Туре о
		Numbe
Protective circuit	Inductive protection	Туре о
	Polarity reversal protection	
	Short circuit protected	
Derformence data		Enviro
Performance data Supply voltage U <sub>B</sub>	18 30 V, DC	Ambie
Supply voltage 0 <sub>B</sub>	10 30 V, DO	Ambier
Outputs Number of digital switching outputs	$2 \operatorname{Piece}(s)$	Certifi
Number of digital switching outputs	2 FIECE(S)	
Switching outputs		Degree
e		Protec
Switching output 1		Standa
Switching element	Transistor, Push-pull	Class
Switching principle	Light/dark reversible	Class
Switching output 2		eCl@s
Switching element	Transistor, Push-pull	eCl@s
Switching principle	Light/dark reversible	ETIM 5
	<b>y</b>	ETIM 6
Timing		
Civala time	26 mg	

Cycle time Response time per beam 36 ms 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 450 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
Type of configuration	Software Via pin assignment
Environmental data	
Type of configuration Environmental data Ambient temperature, operation Ambient temperature, storage	Via pin assignment
Environmental data Ambient temperature, operation	Via pin assignment -30 50 °C
Environmental data Ambient temperature, operation Ambient temperature, storage	Via pin assignment -30 50 °C
Environmental data Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection	Via pin assignment -30 50 °C -40 65 °C
Environmental data Ambient temperature, operation Ambient temperature, storage Certifications	Via pin assignment -30 50 °C -40 65 °C IP 65
Environmental data Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Standards applied	Via pin assignment -30 50 °C -40 65 °C IP 65 III
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Environmental data Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Standards applied Classification	Via pin assignment -30 50 °C -40 65 °C IP 65 III EN 60947-5-2 (German version)
Environmental data Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Standards applied Classification Customs tariff number eCl@ss 8.0	Via pin assignment -30 50 °C -40 65 °C IP 65 III EN 60947-5-2 (German version) 90314990
Environmental data Ambient temperature, operation Ambient temperature, storage Certifications Degree of protection Protection class Standards applied Classification Customs tariff number	Via pin assignment -30 50 °C -40 65 °C IP 65 III EN 60947-5-2 (German version) 90314990 27270910

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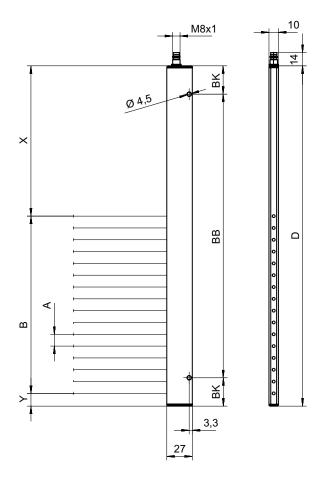
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We reserve the right to make technical changes eng • 2020-06-17

#### **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**

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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
50131378	CSL505-T12.5-388- 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
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

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