Technical data sheet Light curtain receiver Part no.: 50131325 CSL505-R12.5-688-M8





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Technical data

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1 Piece(s)

Signal OUT

Teach input

Racio 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
		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	688 mm	Housing material
Number of beams	56 Piece(s)	Lens cover material
Beam spacing	12.5 mm	Housing color
		Type of fastening
Measurement data		
Minimum object diameter	15 mm	Operation and display
Electrical data		Type of display
Protective circuit	Inductive protection	Number of LEDs
Protective circuit	Polarity reversal protection	Type of configuration
	Short circuit protected	
	Short circuit protected	Environmental data
Performance data		Environmental data
Supply voltage U _B	18 30 V, DC	Ambient temperature, op
<u>-</u>		Ambient temperature, sto
Outputs		Certifications
Number of digital switching output	its 2 Piece(s)	Certifications
Switching outputs		Degree of protection
Switching outputs		Protection class
Switching output 1		Standards applied
Switching element	Transistor, Push-pull	Classification
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
	Light/dark reversible	ETIM 5.0
Switching principle	Lightodark reversible	ETTIVI 5.0

Voltage supply of connection Connector ad size M8 Male erial Metal of pins 4 -pin oding A-coded anical data Cubic sion (W x H x L) 10 mm x 750 mm x 27 mm ig material Metal, Aluminum over material Plastic ig color Silver f fastening Through-hole mounting tion and display f display LED of LEDs 2 Piece(s) f configuration Software Via pin assignment onmental data nt temperature, operation -30 ... 50 °C -40 ... 65 °C nt temperature, storage cations IP 65 of protection

Ш tion class EN 60947-5-2 (German version) rds applied

ification

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

Cycle time Response time per beam 60 ms 1,000 µs

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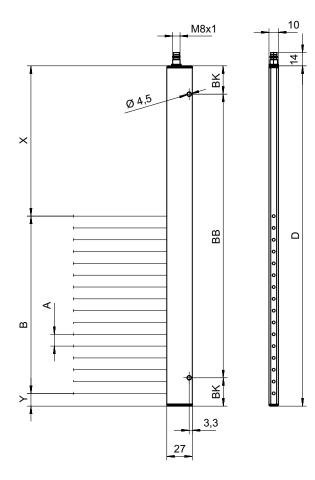
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Dimensioned drawings

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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
50131381	CSL505-T12.5-688- 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
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

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