Technical data sheet

Light curtain transmitter

Part no.: 50131654

CSL505-T12.5-788-VB-M8

Contents

For Illustration purposes only

The Sensor People

We reserve the right to make technical changes

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Technical data

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Basic data

Series	505
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Precise object detection

Special version

Special version	Crossed-beam scanning
	Diagonal-beam scanning
	Parallel-beam scanning

Optical data

Operating range	0.3 ... 5 m
Measurement field length	787.5 mm
Number of beams	64 Piece(s)
Beam spacing	12.5 mm
Light source	LED, Infrared
Wavelength	860 nm
Transmitted-signal shape	Pulsed

Measurement data

Minimum object diameter	15 mm

Electrical data

Protective circuit	Inductive protection
	Polarity reversal protection
	Short circuit protected

Performance data

Supply voltage U_B	18 ... 30 V, DC

Connection

Number of connections	1 Piece(s)

Connection 1

Function	Deactivation input
	Voltage supply
Type of connection	Connector
Thread size	M8
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	10 mm x 27 mm x 960 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	349 g
Housing color	Silver
Type of fastening	Through-hole mounting

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)
Type of configuration	Software
	Via pin assignment

Environmental data

Ambient temperature, operation	-30 ... 50 °C
Ambient temperature, storage	-40 ... 65 °C

Certifications

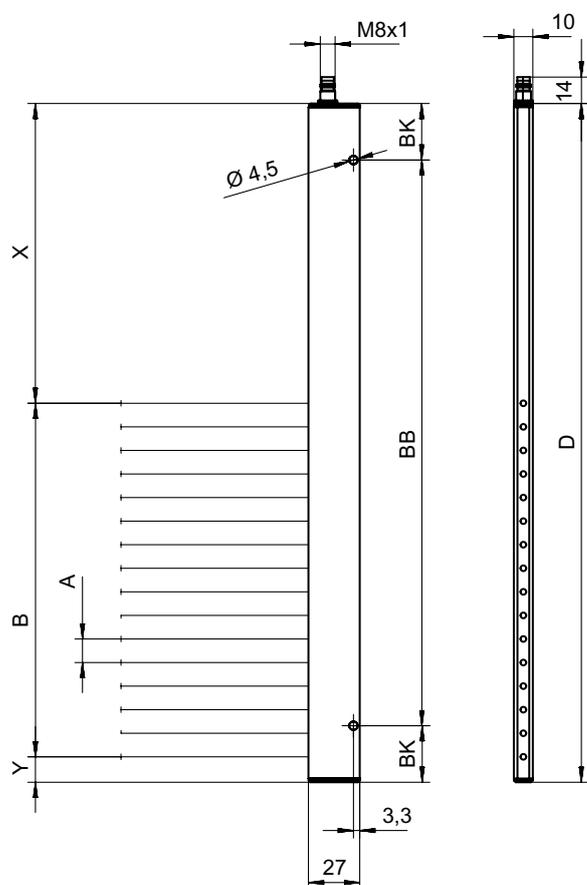|	
Degree of protection	IP 65
Protection class	III

Classification

Customs tariff number	90314990
ECLASS 5.1.4	27270910
ECLASS 8.0	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ECLASS 16.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

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.

M8x1

10

14

BK

Ø 4,5

X

BB

D

A

B

BK

Y

3,3

27

Electrical connection

Connection 1

Function	Deactivation input
	Voltage supply
Type of connection	Connector
Thread size	M8
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

Pin	Pin assignment
1	V+
2	n.c.
3	GND
4	IN 1

Operation and display

LED	Display	Meaning
1	Off	Off

Operation and display

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LED	Display		Meaning
1	Red, continuous light		Operational readiness
	Red, flashing		Error

Suitable receivers

	Part no.	Designation	Operating range Operating range limit	Description
	50131620	CSL505-R12.5-788-VB-M8	0.3 ... 5 m	Application: Precise object detection Special version: Parallel-beam scanning, Crossed-beam scanning, Diagonal-beam scanning, Teach input, Warning output Digital switching outputs: 2 Piece(s) Switching output: Transistor, Push-pull, Light/dark switchable Connection: Connector, M8, 4 -pin

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50130856	KD U-M8-4A-P1-050	Connection cable	Application: Oil and lubricant resistant Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PUR
	50130850	KD U-M8-4A-V1-050	Connection cable	Application: Chemical resistant Connection 1: Connector, M8, Axial, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC
	50130869	KD U-M8-4W-V1-020	Connection cable	Application: Chemical resistant Connection 1: Connector, M8, Angled, Female, 4 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC

Configuration devices

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

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