

## Technical data sheet

### Light curtain transmitter

Part no.: 50131670  
CSL505-T50-1950-VB-M8

#### Contents

- Technical data
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- Electrical connection
- Operation and display
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For illustration purposes only



## Technical data

### 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	1,950 mm
Number of beams	40 Piece(s)
Beam spacing	50 mm
Light source	LED, Infrared
Wavelength	860 nm
Transmitted-signal shape	Pulsed

### Measurement data

Minimum object diameter	52.5 mm
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### Electrical data

Protective circuit	Inductive protection
	Polarity reversal protection
	Short circuit protected

### Performance data

Supply voltage $U_B$	18 ... 30 V, DC
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### Connection

Number of connections	1 Piece(s)
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### 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 2,160 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	1,411 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
UNSPSC 26.08	39121528

# 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	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

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

## Suitable receivers

Part no.	Designation	Operating range Operating range limit	Description
50131636	CSL505-R50-1950-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.