



**Part no.: 50131407**  
**CSL505-T50-750-M8**  
**Light curtain transmitter**



Figure can vary



## Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display
- Suitable receivers
- Part number code
- Accessories

## Technical data

<b>Basic data</b>	
Series	505
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Precise object detection

<b>Optical data</b>	
Operating range	Guaranteed operating range
Operating range	0.3 ... 5 m
Measurement field length	750 mm
Number of beams	16 Piece(s)
Beam spacing	50 mm
Light source	LED , Infrared
LED light wavelength	860 nm

<b>Measurement data</b>	
Minimum object diameter	52.5 mm

<b>Electrical data</b>	
Protective circuit	Inductive protection Polarity reversal protection Short circuit protected

<b>Performance data</b>	
Supply voltage U <sub>B</sub>	18 ... 30 V , DC

<b>Connection</b>	
Number of connections	1 Piece(s)

<b>Connection 1</b>	
Type of connection	Connector
Function	Deactivation input Voltage supply
Thread size	M8
Type	Male
Material	Metal
No. of pins	4 -pin
Encoding	A-coded

<b>Mechanical data</b>	
Design	Cubic
Dimension (W x H x L)	10 mm x 830 mm x 27 mm
Housing material	Metal , Aluminum
Lens cover material	Plastic
Housing color	Silver
Type of fastening	Through-hole mounting

<b>Operation and display</b>	
Type of display	LED
Number of LEDs	1 Piece(s)

Part no.: 50131407 – CSL505-T50-750-M8 – Light curtain transmitter

Type of configuration	Software Via pin assignment
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#### **Environmental data**

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

#### **Certifications**

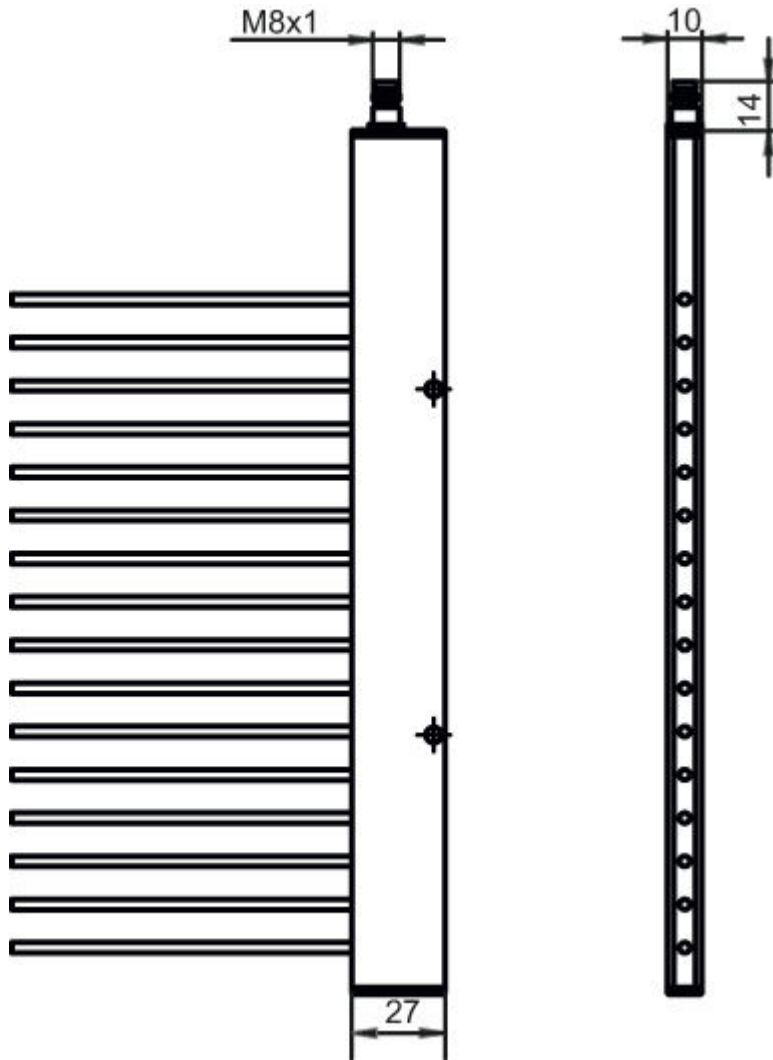
Degree of protection	IP 65
Protection class	III

#### **Classification**

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

## **Dimensioned drawings**

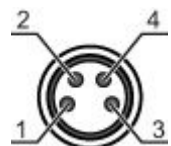
All dimensions in millimeters



## Electrical connection

Connection 1	
Type of connection	Connector
Function	Deactivation input Voltage supply
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




Part no.: 50131407 – CSL505-T50-750-M8 – Light curtain transmitter

## Operation and display

### LEDs

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

## Suitable receivers

	Part no.	Designation	Article	Description
	50131351	CSL505-R50-750-M8	Light curtain receiver	Application: Precise object detection Operating range: 0.3 ... 5 m Digital switching outputs: 2 Piece(s) Switching output: Transistor, Push-pull, Light/dark reversible Connection: Connector, M8, 4 -pin

## Part number code

Part designation: **CSL505-XXXX-ZZZZ-AA**


X	<b>Operating principle:</b> T: transmitter R: receiver
YYY	<b>Beam spacing:</b> 05: 5 mm 12.5: 12.5 mm 25: 25 mm 50: 50 mm 100: 100 mm
ZZZZ	<b>Measurement field length:</b> Measurement field length [mm], dependent on beam spacing
AA	<b>Electrical connection:</b> M8: M8 connector, 4-pin (plug)

### Note


A list with all available device types can be found on the Leuze electronic website at [www.leuze.com](http://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

Part no.: 50131407 – CSL505-T50-750-M8 – Light curtain transmitter

	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

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