

# **Technical data sheet** Light curtain receiver

Part no.: 50131349

CSL505-R25-2375-M8

# Figure can vary

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# **Technical data**



### Basic data

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

### Special design

Crossed-beam scanning
Diagonal-beam scanning
Parallel-beam scanning
Teach input
Warning output

### **Optical data**

Operating range	Guaranteed operating range
Operating range	0.3 5 m
Measurement field length	2,375 mm
Number of beams	96 Piece(s)
Beam spacing	25 mm

### Measurement data

Minimum object diameter	27.5 mm
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### **Electrical data**

Protective circuit	Inductive protection
	Polarity reversal protection
	Short circuit protected

# Performance data

Supply voltage l	J <sub>B</sub>	18	30 V, DC

### Outputs

Number of digital switching outputs 2 Piece(s)

### **Switching outputs**

Switching output 1	
Switching element	Transistor, Push-pull
Switching principle	Light/dark reversible
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Switching output 2	
Switching element	Transistor, Push-pull
Switching principle	Light/dark reversible

### Timina

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Cycle time	100 ms
Response time per beam	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 2,450 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
	Via nin assignment

### **Environmental data**

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

### Certifications

Degree of protection	IP 65
Protection class	III
Standards applied	EN 60947-5-2 (German version)

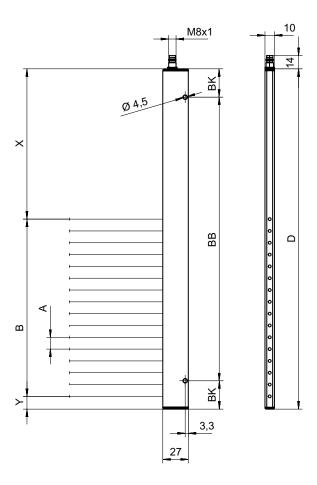
### Classification

Customs tariff number	90314990	
eCl@ss 8.0	27270910	
eCl@ss 9.0	27270910	
ETIM 5.0	EC002549	
ETIM 6.0	FC002549	

# **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	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



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
50131405	CSL505-T25-2375- M8	Light curtain transmitter	Application: Precise object detection Special design: Parallel-beam scanning, Crossed-beam scanning, Diagonal-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



 $\ ^{\mbox{\tiny $t$}}\ \mbox{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**



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
St.	50132069	CSL505-Interface	Module	Connection: Sub-D Functions: Configuration and test device

### Note



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