Technical data sheet
Light curtain transmitter
Part no.: 50131665
CSL505-T25-2375-VB-M8

For Illustration purposes only

Contents

Technical data

Leuze

Basic data

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

Special version

Special version	Parallel-beam scanning

Optical data

Operating range	0.3 ... 5 m
Measurement field length	2,375 mm
Number of beams	96 Piece(s)
Beam spacing	25 mm
Light source	LED, Infrared
Wavelength	860 nm
Transmitted-signal shape	Pulsed

Measurement data

Minimum object diameter	27.5 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 2,560 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	1,275 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

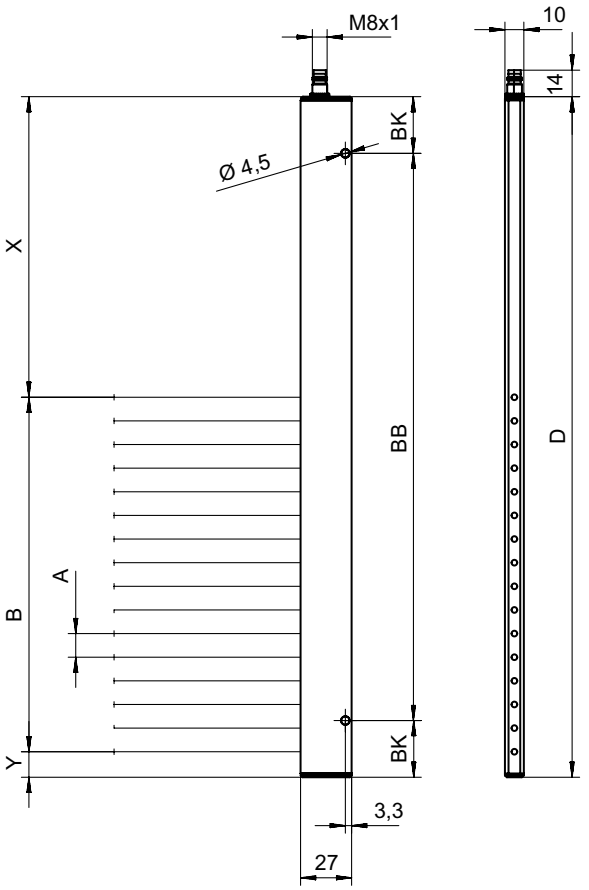
Degree of protection	IP 65
Protection class	III

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

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	Operational readiness
	Red, flashing	Error

Suitable receivers

	Part no.	Designation	Operating range Operating range limit	Description
	50131631	CSL505-R25-2375-VB-M8	0.3 ... 5 m	Application: Precise object detection Special version: Parallel-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.