

Technical data sheet Light curtain transmitter

Part no.: 50128999

CSL710-T05-1920.A-M12



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Technical data



Basic data

710	
Throughbeam principle	
Transmitter	
2x BT-NC sliding block	
Precise object detection	
	Throughbeam principle Transmitter 2x BT-NC sliding block

Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning

Polarity reversal protection

Optical data

Special version

•	
Operating range	Guaranteed operating range
Operating range	0.1 3.5 m
Operating range limit	Typical operating range
Operating range limit	0.1 4.5 m
Measurement field length	1,920 mm
Number of beams	384 Piece(s)
Beam spacing	5 mm
Light source	LED, Infrared
Wavelength	940 nm

Measurement data

Minimum object diameter 10 mm	Minimum o	bject	diameter	10 m	ın
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Electrical data Protective circuit

	Short circuit protected
	Transient protection
Performance data	
Supply voltage U _B	18 30 V, DC
Residual ripple	0 15 %, From U _B
Open-circuit current	 435 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.

Time behavior

Readiness delay	400 ms
Cycle time	11.92 ms

Connection

Number of connections	1 Piece(s)
Plug outlet	Axial

Connection 1

Connection 1	
Function	Connection to receiver
	Sync-input
	Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Mechanical data

Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Aluminum Plastic / PMMA 2,000 g
Metal housing Aluminum Lens cover material Plastic / PMMA Net weight 2,000 g
Lens cover material Plastic / PMMA Net weight 2,000 g
Net weight 2,000 g
, ,
Housing color Red
Type of fastening Groove mounting
Via optional mounting device

Operation and display

Type of display	LED
Number of LEDs	1 Piece(s)

Environmental data

Ambient temperature, operation	-30 60 °C
Ambient temperature, storage	-40 70 °C

Certifications

Degree of protection	IP 65
Protection class	III
Certifications	c CSA US
Standards applied	IEC 60947-5-2

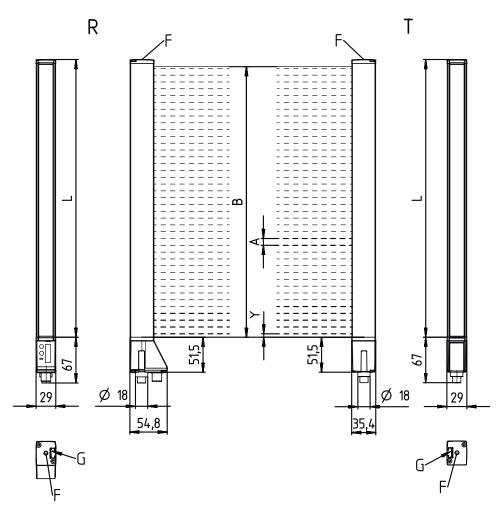
Classification

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
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549

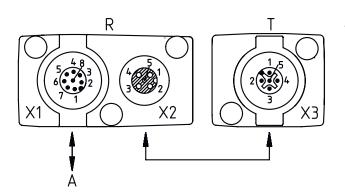
Dimensioned drawings

Leuze

All dimensions in millimeters



- Beam spacing 5 mm
- В Measurement field length 1920 mm
- M6 thread
- G Fastening groove
- Profile length 1928 mm
- Transmitter
- Receiver



PWR / SW IN / OUT

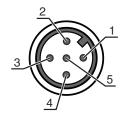
Electrical connection



Connection 1

Function	Connection to receiver
	Sync-input
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Pin	Pin assignment
1	FE/SHIELD
2	V+
3	GND
4	RS 485 Tx+
5	RS 485 Tx-



Operation and display

LED	Display	Meaning
1	Green, continuous light	Continuous mode
	Off	No communication with the receiver / waiting for trigger
	green, flashing in sync with the measurement	Measurement frequency display

Suitable receivers

Part no.	Designation	Article	Description
50128911	CSL710-R05-1920.A/ L-M12	Light curtain receiver	Application: Precise object detection Special version: Parallel-beam scanning, Crossed-beam scanning, Diagonal-beam scanning Operating range: 0.1 3.5 m Selectable inputs/outputs: 4 Piece(s) Service interface: IO-Link Connection: Connector, M12, 8 -pin

Part number code

Part designation: CSL710-XYY-ZZZZ.A/B-CCC

CSL710	Operating principle CSL: switching light curtain of the 710 series
X	Function classes T: transmitter R: receiver
YY	Beam spacing 05: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm
ZZZZ	Measurement field length [mm], dependent on beam spacing Value, see technical data

Part number code



A Equipment

A: Axial connector outlet

B Interface L: IO-Link

CCC Electrical connection

M12: M12 connector

Note



🖔 A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!



- ♦ This product is not a safety sensor and is not intended as personnel protection.
- by Only use the product in accordance with its intended use.

For UL applications:



- 🖖 For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).
- These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min, in the field installation, or equivalent (categories: CYJV/ CYJV7 or PVVA/PVVA7)

Accessories

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
(ii)	50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection cable	Suitable for interface: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Note



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