



the sensor people





Figure can vary

Part no.: 50129024 CSL710-T10-1920.A-M12 Light curtain transmitter





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Technical data

Basic data		
Series	710	
Operating principle	Throughbeam principle	
Device type	Transmitter	
Contains	2x BT-NC sliding block	
Application	Precise object detection	
Approación	1 100000 000000000000000000000000000000	
Optical data		
Operating range	Guaranteed operating range	
Operating range	0.3 7 m	
Operating range limit	Typical operating range	
Operating range limit	0.2 9 m	
Measurement field length	1,920 mm	
Number of beams	192 Piece(s)	
Beam spacing	10 mm	
Light source	LED , Infrared	
LED light wavelength	940 nm	
Measurement data		
Minimum object diameter	20 mm	
Electrical data		
Protective circuit	Polarity reversal protection 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	0 435 mA , The specified values refer to the entire package con-	
	sisting of transmitter and receiver.	
Timing		
Readiness delay	400 ms	
Cycle time	6.16 ms	
	3.101110	
Connection		
Number of connections	1 Piece(s)	
Plug outlet	Axial	
Connection 1		
Type of connection	Connector	
Function	Connection to receiver Sync-input Voltage supply	
	M12	
Thread size		
	Male	
Thread size Type Material		
Туре	Male	



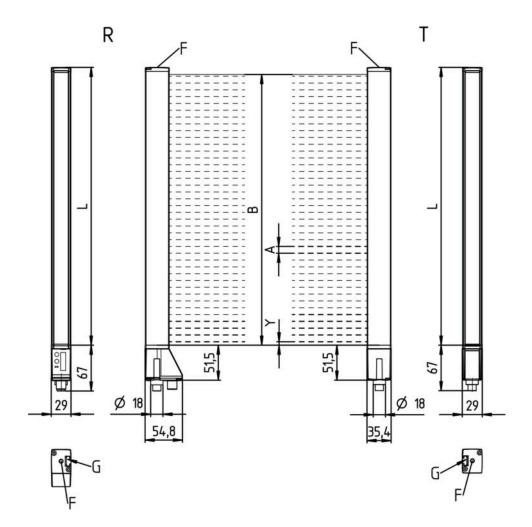
Mechanical data		
Design	Cubic	
Dimension (W x H x L)	29 mm x 35.4 mm x 1,993 mm	
Housing material	Metal , Aluminum	
Lens cover material	Plastic / PMMA	
Net weight	2,000 g	
Housing color	Red	
Type of fastening	Groove mounting Via optional mounting device	
Operation and display		
Type of display	LED	
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	
aCI@aa 9.0	27270040	

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

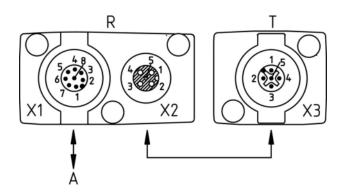
All dimensions in millimeters





- A Beam spacing 10 mm
- B Measurement field length 1920 mm
- F M6 thread
- G Fastening groove
- L Profile length 1928 mm
- T Transmitter
- R Receiver





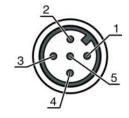
APWR / SW IN/OUT



Electrical connection

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

Pin	Pin assignment
1	FE/SHIELD
2	V+
3	GND
4	RS 485 Tx+
5	RS 485 Tx-



Operation and display

LEDs

	LED	Display	Meaning
	1	Green, continuous light	Continuous mode
1		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
50128940	CSL710-R10-1920.A/ L-M12	Light curtain receiver	Application: Precise object detection Operating range: 0.3 7 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

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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
A	Equipment: A: connector outlet, axial
В	Interface: L: IO-Link
CCC	Electrical connection: M12: M12 connector

Note

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

Notes

Observe intended use!

- · This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- 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
50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection cable	Suitable for interface: IO-Link, 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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
EE.	429046	BT-2R1	Mounting bracket set	Contains: 2x BT-R swivel mount, 1 cylinder for mounting on the light curtain Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

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