

# **Technical data sheet Light curtain transmitter**

Part no.: 50129019

CSL710-T10-1120.A-M12



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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
Special version	

Special version	Crossed-beam scanning
	Diagonal-beam scanning
	Parallel-beam scanning

### **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	1,120 mm
Number of beams	112 Piece(s)
Beam spacing	10 mm
Light source	LED, Infrared
Wavelength	940 nm

#### Measurement data

Minimum object diameter	20 mi
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### **Electrical data** Protective circuit

Short circuit protected
Transient protection
18 30 V, DC
0 15 %, From U <sub>B</sub>
0 270 mA, The specified values refer to the entire package consisting of transmitter and receiver.

Polarity reversal protection

### **Time behavior**

Readiness delay	400 ms
Cycle time	3.72 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

Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 1,193 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic / PMMA
Net weight	1,250 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

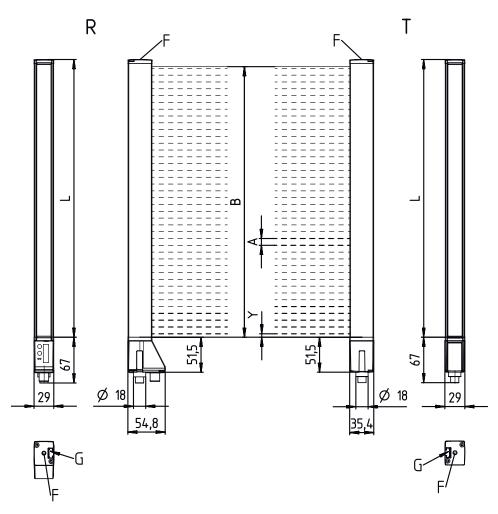
### Classification

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

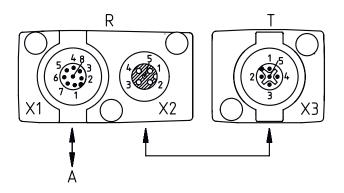
### **Dimensioned drawings**

Leuze

All dimensions in millimeters



- Beam spacing 10 mm
- В Measurement field length 1120 mm
- M6 thread
- G Fastening groove
- Profile length 1128 mm
- Transmitter
- Receiver



PWR / SW IN / OUT

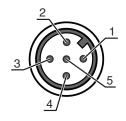
### **Electrical connection**



### **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

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
50128935	CSL710-R10-1120.A/ L-M12	Light curtain receiver	Application: Precise object detection Special version: Parallel-beam scanning, Crossed-beam scanning, Diagonal-beam scanning 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
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.
- Nonly 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: 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.