## **Technical data sheet** Light curtain transmitter Part no.: 50129053 CSL710-T40-1570.A-M12





The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com Phone: +49 7021 573-0 • Fax: +49 7021 573-199

### **Technical data**

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29 mm x 35.4 mm x 1,673 mm

Via optional mounting device

Cubic

Metal

Aluminum

1,700 g

Red

LED

1 Piece(s)

-30 ... 60 °C

-40 ... 70 °C

IP 65

c CSA US

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IEC 60947-5-2

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Plastic / PMMA

Groove mounting

#### Basic data

Device type     Transmitter     Housing m       Contains     2x BT-NC sliding block     Metal housing m	n (W x H x L) naterial
Device type     Transmitter     Housing m       Contains     2x BT-NC sliding block     Metal house       Application     Precise object detection     Lens cover       Net weight	,
Contains     2x BT-NC sliding block     Metal hour       Application     Precise object detection     Lens cover       Net weight	naterial
Application Precise object detection Lens cover Net weigh	
Net weigh	sing
Special version	er material
Special version Housing of	t
The defined of the de	olor
Special version Crossed-beam scanning Type of fac	stening
Diagonal-beam scanning	
Parallel-beam scanning	
Operatio	n and display
Optical data Type of dis	splay
Operating range Guaranteed operating range Number of	f LEDs
Operating range 0.3 7 m	
Operating range limit Typical operating range	nental data
Operating range limit 0.2 9 m Ambient to	emperature, operation
Measurement field length 1,570 mm Ambient to	emperature, storage
Number of beams 40 Piece(s)	
Beam spacing 40 mm Certificat	tions
Light source LED, Infrared Degree of	protection
LED light wavelength 940 nm Protection	•
Certificati	ons
Measurement data Standards	applied
Minimum object diameter 50 mm	
Classific	ation
Electrical data Customs to	tariff number
Protective circuit Polarity reversal protection eCl@ss 5.	1.4
Short circuit protected eCl@ss 8.	.0
Transient protection eCl@ss 9.	.0
eCl@ss 10	0.0
Performance data eCI@ss 11	1.0
Supply voltage U <sub>B</sub> 18 30 V, DC ETIM 5.0	
Residual ripple 0 15 %, From U <sub>B</sub> ETIM 6.0	
Open-circuit current       0 350 mA, The specified values refer to the entire package consisting of transmitter and receiver.       ETIM 7.0	
Timing	
······································	
Readiness delay 400 ms	
Readiness delay 400 ms	
Readiness delay400 msCycle time1.6 ms	
Readiness delay     400 ms       Cycle time     1.6 ms       Connection	
Readiness delay     400 ms       Cycle time     1.6 ms       Connection       Number of connections     1 Piece(s)	
Readiness delay     400 ms       Cycle time     1.6 ms       Connection       Number of connections     1 Piece(s)	

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Sync-input Voltage supply

Connector

M12 Male

Metal

5 -pin

A-coded

Type of connection

Thread size

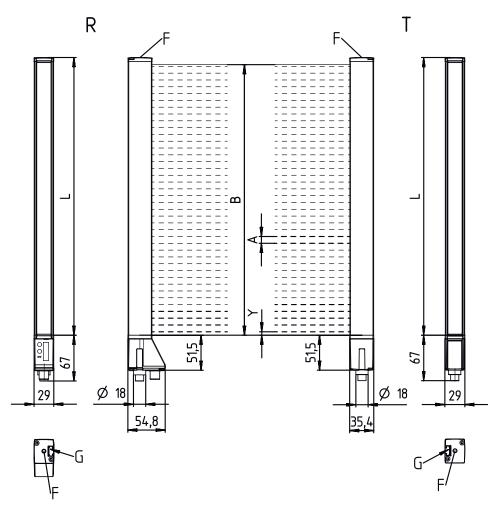
No. of pins

Encoding

Туре Material

#### **Dimensioned drawings**

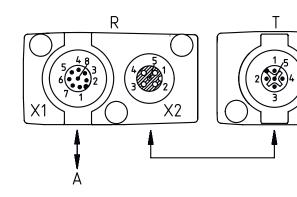
All dimensions in millimeters



- A Beam spacing 40 mm
- B Measurement field length 1570 mm
- F M6 thread
- G Fastening groove
- L Profile length 1608 mm

X3

- T Transmitter
- R Receiver
- Y



A PWR / SW IN / OUT

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### **Electrical connection**

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#### **Connection 1**

Pin

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 assignment**

Pin	Pin assignment	2
1	FE/SHIELD	
2	V+	
3	GND	3
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
50128971	CSL710-R40-1570.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
2222	Measurement field length [mm], dependent on beam spacing Value, see technical data

### Part number code



Α	Equipment A: connector outlet, axial
В	Interface L: IO-Link
CCC	Electrical connection M12: M12 connector
	Note
	the A list with all available device types can be found on the Leuze website at www.leuze.com.

#### Notes

Observe intended use!
<ul> <li>This product is not a safety sensor and is not intended as personnel protection.</li> <li>The product may only be put into operation by competent persons.</li> <li>Only use the product in accordance with its intended use.</li> </ul>

b 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)

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## Accessories

For UL applications:

#### 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
ęę.	429046	BT-2R1	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

#### Accessories





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