Technical data sheet Light curtain transmitter Part no.: 50128985 CSL710-T05-800.A-M12





The Sensor People In der Braike 1, 73277 Owen

Info@leuze.com • www.leuze.com Phone: +49 7021 573-0 • Fax: +49 7021 573-199

We reserve the right to make technical changes eng • 2020-06-17

Technical data

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Connection to receiver

Sync-input

Basic data Series 710 **Operating principle** Throughbeam principle Device type Transmitter Contains 2x BT-NC sliding block Application Precise object detection **Special design** Special design Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning **Optical data** 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 800 mm Number of beams 160 Piece(s) Beam spacing 5 mm Light source LED, Infrared LED light wavelength 940 nm **Measurement data** Minimum object diameter 10 mm **Electrical data** Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Supply voltage U_B 18 ... 30 V, DC 0 ... 15 %, From U_B **Residual ripple** 0 ... 215 mA, The specified values refer **Open-circuit current** to the entire package consisting of transmitter and receiver. Timing 400 ms Readiness delay Cycle time 5.2 ms Connection Number of connections 1 Piece(s)

Axial

Voltage supply
Connector
M12
Male
Metal
5 -pin
A-coded
Cubic
29 mm x 35.4 mm x 873 mm
Metal, Aluminum
Plastic / PMMA
950 g
Red
Groove mounting
Via optional mounting device
LED
1 Piece(s)
-30 60 °C
-40 70 °C
IP 65
III
c CSA US
IEC 60947-5-2
90314990
27270910
27270910
27270910 EC002549

Connection 1 Function

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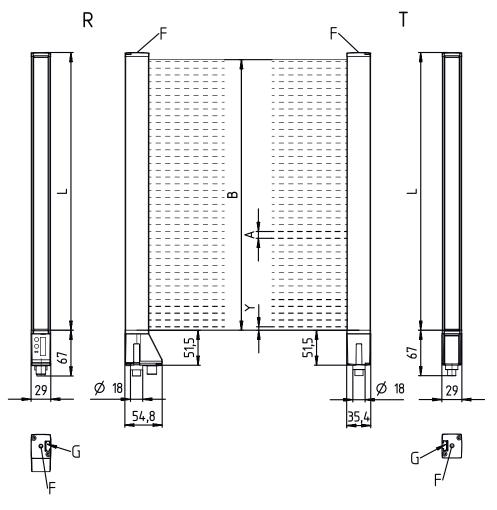
Plug outlet

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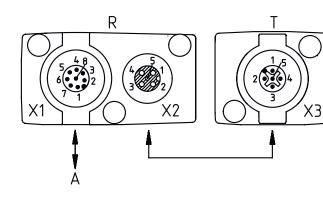
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Dimensioned drawings

All dimensions in millimeters



- A Beam spacing 5 mm
- B Measurement field length 800 mm
- F M6 thread
- G Fastening groove
- L Profile length 808 mm
- T Transmitter
- R Receiver
- Υ



A PWR / SW IN/OUT



Electrical connection

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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 assignment

Pin	Pin assignment	 2
1	FE/SHIELD	
2	V+	
3	GND	$\frac{3}{3}$
4	RS 485 Tx+	
5	RS 485 Tx-	4

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
50128897	CSL710-R05-800.A/ L-M12	Light curtain receiver	Application: Precise object detection Special design: 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
7777	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

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

Notes

	Observe intended use!
	b 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: Image: Second system Image: Second system

 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
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.