



the sensor people





Figure can vary

Part no.: 50129000 CSL710-T05-2000.A-M12 Light curtain transmitter





Contents

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- · Part number code
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Technical data

Basis data	
Basic data	740
Series	710
Operating principle	Throughbeam principle
Device type	Transmitter
Application	Precise object detection
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	2,000 mm
Number of beams	400 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	Transient protection
	19 20 V DC
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 transmitter and receiver.
	oloting of transmitted and roosives.
Timing	
Timing Pagings dolay	400 me
Readiness delay Cycle time	400 ms 12.4 ms
Cycle time	12.4 1115
Connection	48: ()
Number of connections	1 Piece(s)
Plug outlet	Axial
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



Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 2,073 mm
Housing material	Metal , Aluminum
Lens cover material	Plastic / PMMA
Net weight	2,050 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	

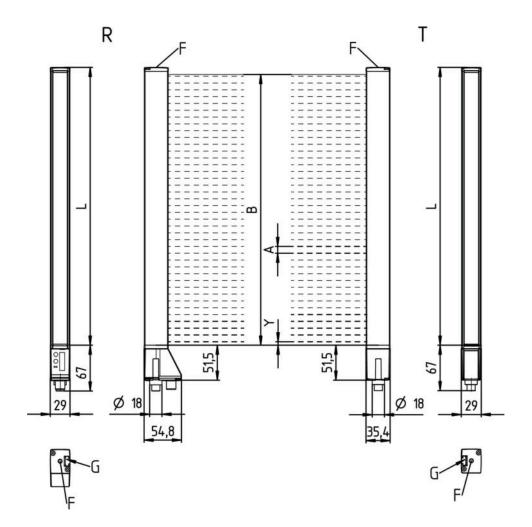
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c CSA US
Standards applied	IEC 60947-5-2

Classification	
Customs tariff number	90314990
eCl@ss 8.0	27270910
eCl@ss 9.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549

Dimensioned drawings

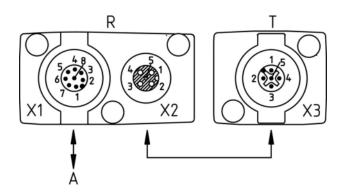
All dimensions in millimeters





- A Beam spacing 5 mm
- B Measurement field length 2000 mm
- F M6 thread
- G Fastening groove
- L Profile length 2008 mm
- T Transmitter
- R Receiver





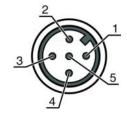
APWR / SW IN/OUT



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
	50128912	CSL710-R05-2000.A/ L-M12	Light curtain receiver	Application: Precise object detection 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	
А	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

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



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