SMART SENSOR BUSINESS

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Part no.: 50128992 CSL710-T05-1360.A-M12 Light curtain transmitter



Figure can vary

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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			
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	1,360 mm			
Number of beams	272 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 UB	18 30 V , DC			
Residual ripple	0 15 % , From U _B			
Open-circuit current	0 270 mA , The specified values refer to the entire package con-			
	sisting of transmitter and receiver.			
Timing				
Readiness delay	400 ms			
Cycle time	8.56 ms			
	0.00 ms			
Connection				
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	Voltage supply M12			
Thread size Type	Voltage supply			
	Voltage supply M12			
Туре	Voltage supply M12 Male			

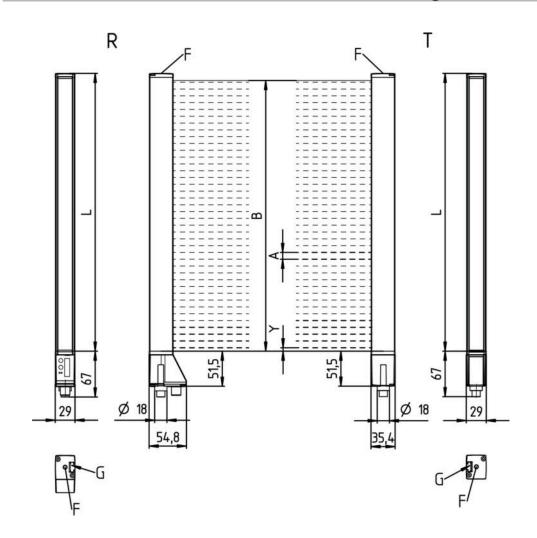
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Mechanical data			
Design	Cubic		
Dimension (W x H x L)	29 mm x 35.4 mm x 1,433 mm		
Lens cover material	Metal , Aluminum Plastic / PMMA		
Net weight	1,450 g		
Housing color	Red		
Type of fastening	Groove mounting Via optional mounting device		
Operation and display			
Type of display	LED		
Number of LEDs	1 Piece(s)		
Environmental data			
	-30 60 °C		
Ambient temperature, operation			
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		
	ECUU2049		

Dimensioned drawings

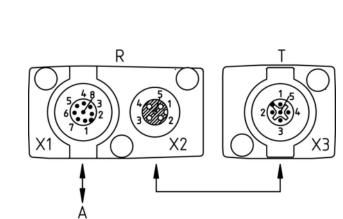
All dimensions in millimeters

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A Beam spacing 5 mm

- B Measurement field length 1360 mm
- F M6 thread
- G Fastening groove
- L Profile length 1368 mm
- T Transmitter
- **R** Receiver
- Y



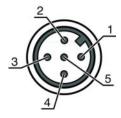
A PWR / SW IN/OUT

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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
	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
50128904	CSL710-R05-1360.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
Х	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

F	Part no.	Designation	Article	Description
50			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
ę.	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.