



the sensor people





Figure can vary

Part no.: 50119770 CML720i-R20-150.A/L-M12 Light curtain receiver







Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- · Operation and display
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- · Part number code
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Technical data

Series 720 Operating principle Throughbeam principle Device type Receiver Contains 2x BT-NC sliding block Application Object measurement Special design Special design Crossed-beam scanning Disgonal-beam scanning Parallel-beam scanning Parallel-beam scanning Parallel-beam scanning Parallel-beam scanning Operating range Operating range 0.3 7 m Operating range 1.0.3 8 m Measurement field length 150 mm Number of beams 8 Picce(s) Beam spacing 20 mm Measurement data Minimum object diameter 30 mm Measurement data Minimum object diameter 30 mm Petertrical data Protective circuit Protected Transfert protected Output current 0 15 % . From Us Open-circuit current 0 15 % . From Us Trype Inputs/outputs selectable Output current, max. 100 m A Input resistance 6,000 C Number of inputs outputs selectable Type Inputs/outputs sele	Basic data	
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Switching voltage, outputs Typ. U _B / 0 V Voltage type, inputs DC Switching voltage, inputs high: ≥6V low: ≤4V Input/output 1 Activation/disable delay 0 1 ms Timing Readiness delay 400 ms Cycle time 1 ms	Туре	Inputs/outputs selectable
Voltage type, inputs DC Switching voltage, inputs high: ≥6V low: ≤4V Input/output 1 0 1 ms Timing Readiness delay 400 ms Cycle time 1 ms	Voltage type, outputs	DC
Switching voltage, inputs high: ≥6V low: ≤4V Input/output 1 Activation/disable delay 0 1 ms Timing Readiness delay 400 ms Cycle time 1 ms	Switching voltage, outputs	Typ. U _B / 0 V
low: ≤4V	Voltage type, inputs	DC
Input/output 1 Activation/disable delay 0 1 ms Timing Readiness delay 400 ms Cycle time 1 ms	Switching voltage, inputs	
Activation/disable delay 0 1 ms Timing Readiness delay 400 ms Cycle time 1 ms	Input/output 1	
Timing Readiness delay 400 ms Cycle time 1 ms		0 1 ms
Readiness delay 400 ms Cycle time 1 ms		
Readiness delay 400 ms Cycle time 1 ms	Timing	
Cycle time 1 ms	Readiness delay	400 ms
	Cycle time	
	Response time per beam	30 µs



Interface		
Interface		
Type	IO-Link	
IO-Link	2011	
COM mode	COM2	
Specification	V1.0.1 V1.1	
Min. cycle time	COM2 = 2.3 ms	
Service interface		
Туре	IO-Link	
IO-Link		
Function	Configuration via software Service	
Connection		
Number of connections	2 Piece(s)	
Plug outlet	Axial	
Connection 1		
Function	Configuration interface Signal IN Signal OUT Voltage supply	
Type of connection	Connector	
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	8 -pin	
Encoding	A-coded	
Connection 2		
Function	Connection to transmitter	
Type of connection	Connector	
Thread size	M12	
Туре	Female	
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 235 mm	
Housing material	Metal , Aluminum	
Lens cover material	Plastic	
Net weight	350 g	
Housing color	Silver	
Type of fastening	Groove mounting Via optional mounting device	
Operation and display		
Operation and display Type of display	LED OLED display	

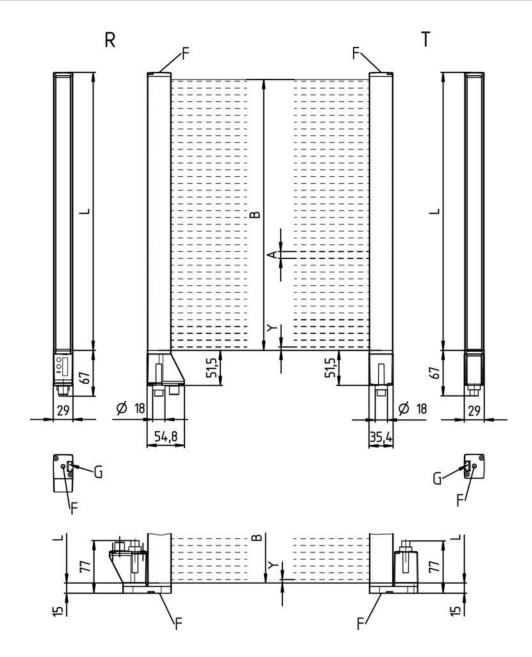


Software Teach-in			
Membrane keyboard	Membrane keyboard		
-30 60 °C			
-40 70 °C			
IP 65			
III			
c CSA US			
IEC 60947-5-2	IEC 60947-5-2		
90314990	90314990		
27270910			
27270910	27270910		
EC002549			
EC002549	EC002549		
	-30 60 °C -40 70 °C IP 65 III c CSA US IEC 60947-5-2 90314990 27270910 27270910 EC002549		

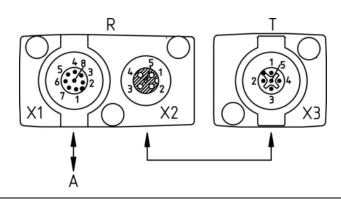
Dimensioned drawings

All dimensions in millimeters





- A Beam spacing 20 mm B Measurement field length 150 mm
- F M6 thread
- G Fastening groove
- L Profile length 168 mm
- T Transmitter
- R Receiver
- Y 5 mm



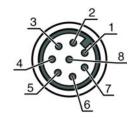


APWR / SW IN/OUT

Electrical connection

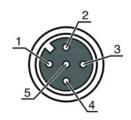
Connection 1		
Function	Configuration interface Signal IN Signal OUT Voltage supply	
Type of connection	Connector	
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	8 -pin	
Encoding	A-coded	

Pin	Pin assignment
1	V+
2	101
3	GND
4	IO-Link
5	102
6	103
7	IO4
8	GND



Connection 2	
Function	Connection to transmitter
Type of connection	Connector
Thread size	M12
Туре	Female
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	Operational readiness
	Green, flashing	Teach / error
		Measurement frequency display
2	Yellow, continuous light	Light path free, with function reserve
	Yellow, flashing	No function reserve
	Off	Object detected

Suitable transmitters

Part no.	Designation	Article	Description
50119423	CML720i- T20-150.A-M12	Light curtain transmitter	Operating range: 0.3 6 m Connection: Connector, M12, Axial, 5 -pin

Part number code

Part designation: CML7XXi-YZZ-AAAA.BCCCDDD-EEEFFF

CML	Operating principle: Measuring light curtain
7XXi	Series: 720i: 720i series 730i: 730i series
Y	Device type: T: transmitter R: receiver
ZZ	Beam spacing: 05: 5 mm 10: 10 mm 20: 20 mm 40: 40 mm
AAAA	Measurement field length [mm], dependent on beam spacing
В	Equipment: A: connector outlet, axial R: rear connector outlet
CCC	Interface: L: IO-Link /CN: CANopen /PB: PROFIBUS /PN: PROFINET /CV: Analog current and voltage output /D3: RS 485 Modbus
DDD	Special equipment: -PS: Power Setting
EEE	Electrical connection: M12: M12 connector
FFF	-EX: Explosion protection:

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 - Connection cables

Part no.	Designation	Article	Description
50135128	KD S-M12-8A- P1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

Part no.	Designation	Article	Description
	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 - Mounting brackets

	Part no.	Designation	Article	Description
	50142900	BT 700M.5-2SET	Mounting device set	Contains: 2x mounting brackets, 1 teach template, 4 M6 x 10 screws Design of mounting device: Bracket mounting Fastening, at system: Through-hole mounting, T slotted hole Mounting bracket, at device: Screw type, Sliding block Type of mounting device: Rigid Material: Steel

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Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
EE.	429046	BT-2R1	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

Part no.	Designation	Article	Description
50121098	SET MD12-US2-IL1.1 + Zub.		Interface: USB Connections: 2 Piece(s) Degree of protection: IP 20

Services

Part no.	Designation	Article	Description
S981001	CS10-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.
S981005	CS10-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

Note

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