Technical data sheet Light curtain transmitter Part no.: 50119374 CML720i-T05-560.A-M12



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Technical data

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Basic data

Operating principle Throughbeam principle Device type Transmitter Contains 2x BT-NC sliding block Application Object measurement Special version Crossed-beam scanning Diagonal-beam scanning Diagonal-beam scanning Parallel-beam scanning Parallel-beam scanning Operating range Guaranteed operating range Operating range 0.1 3.5 m Operating range 0.1 3.5 m Operating range limit 0.1 4.5 m Measurement field length 560 mm Number of beams 112 Piece(s) Beam spacing 5 mm LED light wavelength 940 nm Measurement data Winimum object diameter It in mum object diameter 10 mm Electrical data Polarity reversal protection Short circuit protected Transient protection Short circuit querent 0 165 mA, The specified values refer Open-circuit current 0 165 mA, The specified values refer Open-circuit current 0 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver. Timi	Basic data				
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Weasurement data Winimum object diameter 10 mm Electrical data Polarity reversal protection Short circuit protected Transient protection Performance data Supply voltage U _B Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay Aformation 3.76 ms Connection 1 Piece(s)	Light source	LED, Infrared			
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Electrical data Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)	Measurement data				
Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Image: Supply voltage UB Supply voltage UB 18 30 V, DC Residual ripple 0 15 %, From UB Open-circuit current 0 165 mA, The specified values refert to the entire package consisting of transmitter and receiver. Timing Readiness delay Readiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)	Minimum object diameter	10 mm			
Protective circuit Polarity reversal protection Short circuit protected Transient protection Performance data Image: Supply voltage UB Supply voltage UB 18 30 V, DC Residual ripple 0 15 %, From UB Open-circuit current 0 165 mA, The specified values refert to the entire package consisting of transmitter and receiver. Timing Readiness delay Readiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)	Electrical data				
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Performance data Supply voltage U _B 18 30 V, DC Residual ripple 0 15 %, From U _B Open-circuit current 0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)					
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Open-circuit current 0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver. Timing Readiness delay Keadiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)					
Readiness delay 450 ms Cycle time 3.76 ms Connection 1 Piece(s)	Open-circuit current	0 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver.			
Cycle time 3.76 ms Connection Number of connections 1 Piece(s)	Timing				
Connection Number of connections 1 Piece(s)	Readiness delay	450 ms			
Number of connections 1 Piece(s)	Cycle time	3.76 ms			
	Connection				
Plug outlet Axial	Number of connections	1 Piece(s)			
	Plug outlet	Axial			

Number of connections	1 Piece(s)
Plug outlet	Axial
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

Mechanical data

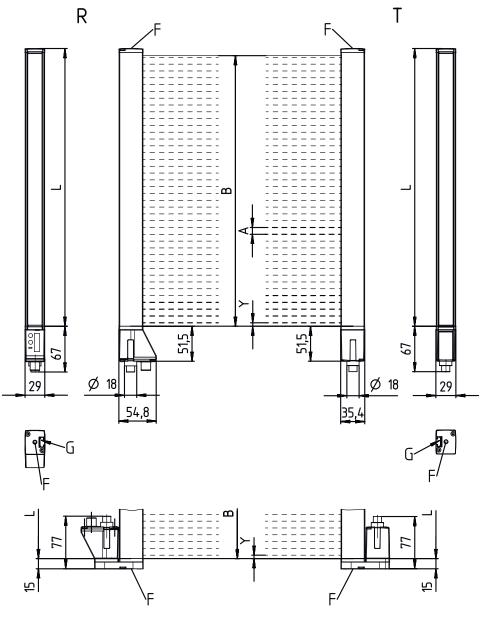
Mechanical data	
Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 635 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	750 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device
Operation and display	
Type of display	LED
Number 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 5.1.4	27270910
eCl@ss 8.0	27270910
eCl@ss 9.0	27270910
eCl@ss 10.0	27270910
eCl@ss 11.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549

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 We reserve the rig

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Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А В

- Measurement field length 560 mm
- F M6 thread

G

- Fastening groove
- Profile length 568 mm L Т
 - Transmitter
- R Receiver
- 2.5 mm Υ





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

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
Į	50119612	CML720i-R05-560.A/ CN-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin
ļ	50119802	CML720i-R05-560.A/ CV-M12	Light curtain receiver	Operating range: 0.1 3.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Axial, 8 -pin
	50123446	CML720i-R05-560.A/ D3-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin
Į	50119721	CML720i-R05-560.A/ L-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin

Suitable receivers

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	Part no.	Designation	Article	Description
Į	50122938	CML720i-R05-560.A/ PB-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin
Į	50131902	CML720i-R05-560.A/ PN-M12	Light curtain receiver	Operating range: 0.1 3.5 m Interface: PROFINET Connection: Connector, M12, Axial, 8 -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
22	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
Note	
	ist with all available device types can be found on the Leuze website at www.leuze.com.

Notes

Observe intended use!

This product is not a safety sensor and is not intended as personnel protection.

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$ The product may only be put into operation by competent persons.

 $\ensuremath{\mathfrak{b}}$ Only use the product in accordance with its intended use.

	F	or UL applications:
9	М	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 PVVÁ/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 - Mounting brackets

	Part no.	Designation	Article	Description
1 + + + + + + + + + + + + + + + + + + +	50142900	BT 700M.5-2SET	Mounting device set	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

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

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Accessories

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Configuration devices

 Part no.	Designation	Article	Description
50121098	SET MD12-US2-IL1.1 + Zub.	Diagnostics set	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
1	Note: A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.