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



The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com

Phone: +49 7021 573-0 • Fax: +49 7021 573-199

Leuze

# **Technical data**

# Leuze

### 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				
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       Diagonal-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         Weasurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Winimum object diameter         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Performance data       0 15 %, From U <sub>B</sub> Open-circuit current       0 15 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       3.76 ms         Connection       Number of connections	Series	720			
Contains       2x BT-NC sliding block         Application       Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning       Parallel-beam scanning         Parallel-beam scanning       Parallel-beam scanning         Optical data       Deperating range         Operating range       Guaranteed operating range         Operating range       0.1 3.5 m         Operating range limit       0.1 4.5 m         Weasurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Winimum object diameter         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit current       0 15 %, From U <sub>B</sub> Open-circuit current       0 15 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) <td>Operating principle</td> <td>Throughbeam principle</td>	Operating principle	Throughbeam principle			
Application       Object measurement         Special version       Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning         Special version       Crossed-beam scanning         Diagonal-beam scanning       Diagonal-beam scanning         Operating range       Guaranteed operating range         Operating range       Guaranteed operating range         Operating range       Guaranteed operating range         Operating range limit       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         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Polarity reversal protection         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Protective circuit       Polarity reversal protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current         Open-circuit current       0 165 ms       Miter and receiver.         Timing       Econnection       3.76 ms       Connection <t< td=""><td>Device type</td><td>Transmitter</td></t<>	Device type	Transmitter			
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 limit       Typical operating range         Operating range limit       0.1 4.5 m         Operating range limit       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer         to the entire package consisting of transmitter and receiver.       mitter and receiver.         Timing       3.76 ms         Connection       1 Piece(s)	Contains	2x BT-NC sliding block			
Special version       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       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Winimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Supply voltage Ug       18 30 V, DC         Residual ripple       0 16 %, From Ug         Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver.         Timing       Readiness delay       450 ms         Connection       1	Application	Object measurement			
Diagonal-beam scanning         Parallel-beam scanning         Parallel-beam scanning         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         Operating range limit       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Winimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Supply voltage UB       18 30 V, DC         Residual ripple       0 15 %, From UB         Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver.         Timing       3.76 ms         Connection       1. Piece(s)	Special version				
Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range limit       Typical operating range         Operating range limit       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         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Winimum object diameter         Winimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       3.76 ms         Connection       1 Piece(s)	Special version	Crossed-beam scanning			
Optical data         Operating range       Guaranteed operating range         Operating range limit       Typical operating range         Operating range limit       0.1 3.5 m         Operating range limit       0.1 4.5 m         Operating range limit       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit current       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       3.76 ms       Stop ms         Connection       1 Piece(s) <td></td> <td>Diagonal-beam scanning</td>		Diagonal-beam scanning			
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         Operating range limit       0.1 4.5 m         Operating range limit       0.1 4.5 m         Weasurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Weasurement data       10 mm         Winimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)		Parallel-beam scanning			
Dperating range       0.13.5 m         Operating range limit       Typical operating range         Operating range limit       0.14.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       3.76 ms         Cycle time       3.76 ms         Connection       1 Piece(s)	Optical data				
Operating range limit       Typical operating range         Operating range limit       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected Transient protection         Short circuit protected Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       3.76 ms         Connection       1 Piece(s)	Operating range	Guaranteed operating range			
Dperating range limit       0.1 4.5 m         Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)	Operating range	0.1 3.5 m			
Measurement field length       560 mm         Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Measurement data       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer         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)	Operating range limit	Typical operating range			
Number of beams       112 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 15 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)	Operating range limit	0.1 4.5 m			
Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Winimum object diameter         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       3.76 ms         Connection       3.76 ms         Number of connections       1 Piece(s)	Measurement field length	560 mm			
Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)	Number of beams	112 Piece(s)			
LED light wavelength       940 nm         Measurement data       Minimum object diameter       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Supply voltage U <sub>B</sub> Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Finning       Xumber of connections         Number of connections       1 Piece(s)	Beam spacing	5 mm			
Weasurement data         Winimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Supply voltage U <sub>B</sub> Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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			
Winimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Supply voltage U <sub>B</sub> Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         A50 ms       3.76 ms         Connection       1 Piece(s)	LED light wavelength	940 nm			
Electrical data         Protective circuit       Polarity reversal protection         Short circuit protected         Transient protection         Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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				
Short circuit protected         Transient protection         Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)					
Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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         Number of connections       1 Piece(s)	Protective circuit				
Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)					
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)		iransient protection			
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> 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)	Performance data				
Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 165 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Qcle time       3.76 ms         Connection       1 Piece(s)		18 30 V, DC			
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

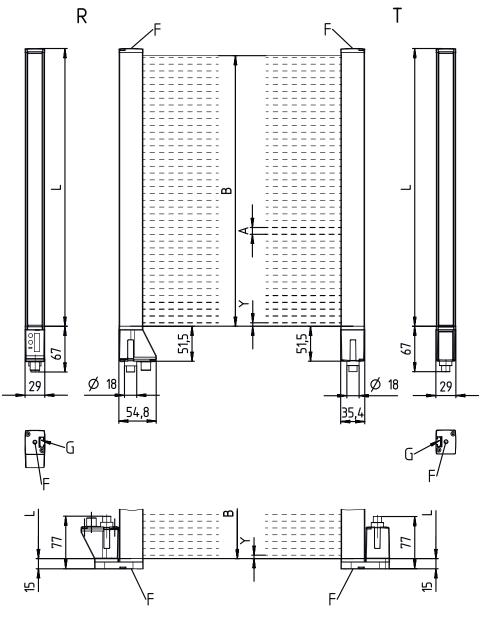
Mechanical data	
Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 635 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	750 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device
Operation and display	
Type of display	LED
Number 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

 Leuze electronic GmbH + Co. KG
 info@leuze.com • www.leuze.com
 We reserve the rig

 The Sensor People
 In der Braike 1, 73277 Owen
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 we reserve the rig

# **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**

# Leuze

2

### **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

# Leuze

	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

Leuze

# Accessories

# Leuze

# 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.