# **Technical data sheet Light curtain transmitter** Part no.: 50118611 CML730i-T05-2880.A-M12





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## **Technical data**

# Leuze

Contains       2x BT-NC sliding block         Application       Detection of transparent objects         Object measurement       Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning       Diagonal-beam scanning         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Performance data       18 30 V, DC         Residual ripple       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Series	730
Device type       Transmitter         Contains       2x BT-NC sliding block         Application       Detection of transparent objects         Object measurement       Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning       Diagonal-beam scanning         Operating range       Cuaranteed operating range         Operating range       0.1 4 m         Operating range limit       1 1.75 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 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         Short circuit protection       Short circuit protection         Short circuit protection	Operating principle	Throughbeam principle
Application       Detection of transparent objects Object measurement         Special version       Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning         Special version       Crossed-beam scanning Diagonal-beam scanning         Optical data       Operating range         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 6 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Short circuit protected Transient protection       Short circuit and receiver.         Puply voltage UB Residual ripple       18 30 V, DC Residual ripple       0 15 %, From UB O Open-circuit current         Open-circuit current       0 60 0mA, The specified values refer to the entire package consisting of trans- mitter and receiver.         Timing       Supply voltage UB Supply	Device type	
Application       Detection of transparent objects         Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning         Parallel-beam scanning         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range (ransparent media       0.1 4 m         Operating range limit       Typical operating range         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Electrical data       Portective circuit         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit current       0	Contains	2x BT-NC sliding block
Object measurement         Special version         Crossed-beam scanning         Diagonal-beam scanning         Parallel-beam scanning         Parallel-beam scanning         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       940 nm         Minimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit current       0 15 %, From Ug         Open-circuit current       0 60 mA. The specified values refer         to the entire package consisting of transmitter and receiver.       mitter and receiver.         Timing       Suge ms<	Application	
Special version       Crossed-beam scanning         Diagonal-beam scanning         Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Protective circuit       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       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Supply voltage U <sub>B</sub> 450 ms         Cycle time       5.96 ms       Connection         Number of connections       1 Piece(s)		
Diagonal-beam scanning         Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       Typical operating range         Operating range limit       0.1 1.75 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 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         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       0 600 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Supply voltage U <sub>B</sub> 450 ms         Cycle time       5.96 ms       Super schage consisting of transmitter and receiver.	Special version	
Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range, transparent media       0.1 1.75 m         Operating range limit       Typical operating range         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       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       0 600 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5.96 ms       Sens         Connection       1 Piece(s)       Number of connections	Special version	Crossed-beam scanning
Optical data         Operating range       Guaranteed operating range         Operating range, transparent media       0.14 m         Operating range limit       Typical operating range         Operating range limit       0.16 m         Operating range limit       0.16 m         Measurement field length       2,880 mm         Number of beams       576 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         Performance data       18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refere to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)		Diagonal-beam scanning
Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range, transparent media       0.1 1.75 m         Operating range limit       Typical operating range         Operating range limit       0.1 6 m         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 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       Protective circuit         Polarity reversal protection       Short circuit protected         Transient protection       Short circuit protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Super stop ms     <		Parallel-beam scanning
Operating range       0.1 4 m         Operating range, transparent media       0.1 1.75 m         Operating range limit       Typical operating range         Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 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         Performance data       18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refert to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Optical data	
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Operating range limit       0.1 6 m         Measurement field length       2,880 mm         Number of beams       576 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       0 600 mA, The specified values refer to the entire package consisting of trans- mitter and receiver.         Timing       Readiness delay         A50 ms       5.96 ms         Connection       1 Piece(s)	Operating range, transparent media	0.1 1.75 m
Weasurement field length       2,880 mm         Number of beams       576 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Measurement data       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       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Operating range limit	Typical operating range
Number of beams       576 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         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       0 600 mA, The specified values refer         to the entire package consisting of transmitter and receiver.       Timing         Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Operating range limit	0.1 6 m
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       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       0 600 mA, The specified values refer         to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Measurement field length	2,880 mm
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Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Protective circuit       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       0 600 mA, The specified values referto the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Quelt time       5.96 ms         Connection       1 Piece(s)	LED light wavelength	940 nm
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Protective circuit       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       0 600 mA, The specified values referto the entire package consisting of transmitter and receiver.         Timing       Readiness delay         A50 ms       5.96 ms         Connection       1 Piece(s)	Minimum object diameter	10 mm
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       0 600 mA, The specified values refert to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)	Electrical data	
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Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)		Short circuit protected
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refer         to the entire package consisting of transmitter and receiver.         Timing         Readiness delay         Cycle time         Supply voltage U <sub>B</sub> Number of connections		Transient protection
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refer         to the entire package consisting of transmitter and receiver.         Timing         Readiness delay         Cycle time         Supply voltage U <sub>B</sub> Number of connections	Performance data	
Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 600 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Readiness delay       450 ms         Cycle time       5.96 ms         Connection       1 Piece(s)		18 30 V, DC
to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5.96 ms Connection Number of connections 1 Piece(s)		0 15 %, From U <sub>B</sub>
Readiness delay     450 ms       Cycle time     5.96 ms       Connection       Number of connections     1 Piece(s)	Open-circuit current	0 600 mA, The specified values refer to the entire package consisting of trans mitter and receiver.
Cycle time 5.96 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	5.96 ms
	Connection	
Plug outlet Axial		
	Number of connections	1 Piece(s)

Connection 1		
Function	Connection to receiver	
Type of connection	Connector	
Thread size	M12	
Туре	Male	
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 2,955 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	2,850 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	

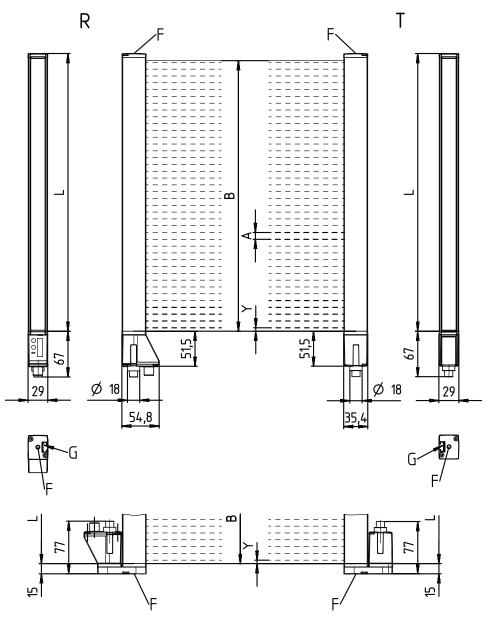
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We reserve the right to make technical changes

# **Dimensioned drawings**

All dimensions in millimeters



- Beam spacing 5 mm А
- В Measurement field length 2880 mm
- F M6 thread
- G Fastening groove
- Profile length 2888 mm L Т
  - Transmitter
- R Receiver
- 2.5 mm Υ





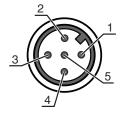
## **Electrical connection**

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#### **Connection 1**

Function	Connection to receiver
Type of connection	Connector
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**

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

Suitable it	Part no.	Designation	Article	Description
	50118692	CML730i-R05- 2880.A/CN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin
	50118853	CML730i-R05- 2880.A/CV-M12	Light curtain receiver	Operating range: 0.1 4.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Axial, 8 -pin
	50123305	CML730i-R05- 2880.A/D3-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin
	50118772	CML730i-R05- 2880.A/L-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin

#### Suitable receivers

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	Part no.	Designation	Article	Description
Į	50123119	CML730i-R05- 2880.A/PB-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin
ļ	50131730	CML730i-R05- 2880.A/PN-M12	Light curtain receiver	Operating range: 0.1 4.5 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 /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	
A list	t 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.

	For UL applications:
0	the 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 - Mounting brackets

	Part no.	Designation	Article	Description
1.1.	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
ęł.	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
U U	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
6	Second A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.