## Leuze

## **Technical data sheet** Light curtain transmitter Part no.: 50118582 CML730i-T05-560.A-M12



Leuze electronic GmbH + Co. KG

info@leuze.com • www.leuze.com changes 
 The Sensor People
 In der Braike 1, D-73277 Owen/Germany
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2025-04-03

We reserve the right to make technical

### **Technical data**

## Leuze

#### **Basic data**

Connection 1 Function

Thread size

Туре

Material

No. of pins Encoding

Type of connection

ghbeam principle mitter -NC sliding block tion of transparent objects t measurement ed-beam scanning		
mitter -NC sliding block tion of transparent objects t measurement ed-beam scanning		
-NC sliding block tion of transparent objects t measurement ed-beam scanning		
tion of transparent objects t measurement ed-beam scanning		
t measurement ed-beam scanning		
ed-beam scanning		
Ŭ		
, in the second s		
nal-beam scanning		
el-beam scanning		
4 m		
inteed operating range		
1.75 m		
6 m		
al operating range		
560 mm		
iece(s)		
LED, Infrared 940 nm		
n		
ty reversal protection		
circuit protected		
ient protection		
30 V, DC		
5 %, From U <sub>B</sub>		
65 mA, The specified values refer entire package consisting of trans and receiver.		
15		
15		
15		

Connection to receiver

Connector

M12

Male Metal

5 -pin

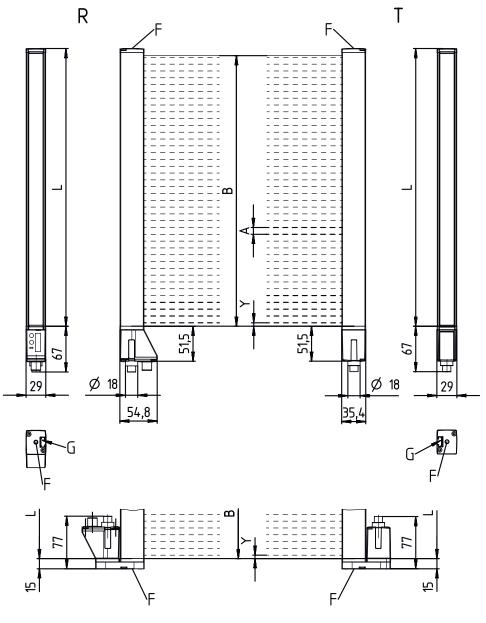
A-coded

#### 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	
Approvals	c UL US
Standards applied	IEC 60947-5-2
otandardo applica	
Classification	
Customs tariff number	90314990
ECLASS 5.1.4	27270910
ECLASS 8.0	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

#### **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





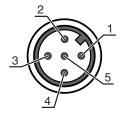
#### **Electrical connection**

## Leuze

#### **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 I	Part no.	Designation	Article	Description
	50118661	CML730i-R05-560.A/ CN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin
	50118824	CML730i-R05-560.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
	50123276	CML730i-R05-560.A/ D3-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin
	50118743	CML730i-R05-560.A/ L-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin

#### Suitable receivers

	Part no.	Designation	Article	Description
	50123127	CML730i-R05-560.A/ PB-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin
Į	50131740	CML730i-R05-560.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: Axial connector outlet 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	
A list wi	th 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.

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

 $\ensuremath{^{\ensuremath{\Downarrow}}}$  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).
Ĭ,	

#### Accessories

#### Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection cable	Suitable for interface: 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	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
R. Ca	429393	BT-2HF	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 360° Material: Metal, Plastic

#### Configuration devices

	Part no.	Designation	Article	Description
165	50121098	SET MD12-US2-IL1.1 + Zub.	Diagnostics set	Interface: USB Connections: 2 Piece(s) Degree of protection: IP 20

Leuze

#### Accessories

## Leuze

#### 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.
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.

	Note
6	<sup>t</sup> A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.