



the sensor people





Figure can vary

Part no.: 50136322 CML730i-T05-400.A-PS-M12 Light curtain transmitter





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## **Technical data**

Basic data			
Series	730		
Operating principle	Throughbeam principle		
Device type	Transmitter		
Contains	2x BT-NC sliding block		
Application	Detection of transparent films Detection of transparent objects Object detection in film tube Object measurement Radiation of semi-transparent media		
Optical data			
Operating range	Guaranteed operating range		
Operating range	0.1 4.5 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	400 mm		
Number of beams	80 Piece(s)		
Beam spacing	5 mm		
Light source	LED , Infrared		
LED light wavelength	940 nm		
Management			
Measurement data	10 mm		
Minimum object diameter	10 mm		
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  Pendinger delay	450 mg		
Readiness delay	450 ms		
Cycle time	1 ms		
Connection			
Number of connections	1 Piece(s)		
Plug outlet	Axial		



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 475 mm		
Housing material	Metal , Aluminum		
Lens cover material	Plastic	Plastic	
Net weight	650 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

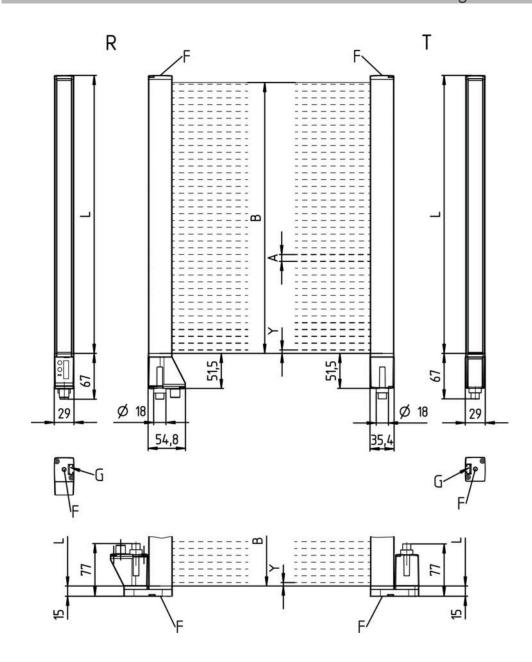
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c CSA US
Standards applied	IEC 60947-5-2

Classification		
Customs tariff number	90314990	
eCl@ss 8.0	27270910	
eCl@ss 9.0	27270910	
ETIM 5.0	EC002549	
ETIM 6.0	EC002549	

## **Dimensioned drawings**

All dimensions in millimeters





- A Beam spacing 5 mm B Measurement field length 400 mm
- F M6 thread
- G Fastening groove
- L Profile length 408 mm
- T Transmitter
- R Receiver
- Y 2.5 mm

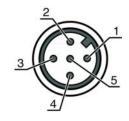




### **Electrical connection**

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**

#### **LEDs**

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
50136320	CML730i- R05-400.A/CV- PS-M12	Light curtain receiver	Operating range: 0.1 4.5 m Analog outputs: 1 Piece(s), Freely configurable Connection: Connector, M12, Rear side, 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	
Υ	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:			

#### Note

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 - 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

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# 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

# Mounting technology - Swivel mounts

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

## 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.

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