SMART SENSOR BUSINESS

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Part no.: 50118839 CML730i-R05-1760.A/CV-M12 Light curtain receiver



Figure can vary

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Technical data

730	
Throughbeam principle	
Receiver	
2x BT-NC sliding block	
Detection of transparent objects Object measurement	
Guaranteed operating range	
0.1 4.5 m	
0.1 1.75 m	
Typical operating range	
0.1 6 m	
1,760 mm	
352 Piece(s)	
5 mm	
10 mm	
Polarity reversal protection Short circuit protected Transient protection	
18 30 V , DC	
0 15 % , From U _B	
0 350 mA , The specified values refer to the entire package consisting of transmitter and receiver.	
2 Piece(s)	
0 24 mA	
0 11 V	
Voltage	
Voltage	
Voltage	

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Innuto/outputo oclocichio					
Inputs/outputs selectable	100 mA				
Output current, max.					
Input resistance	6,000 Ω 2 Diago(a)				
Number of inputs/outputs selectable	2 Piece(s)				
Type	Inputs/outputs selectable				
Voltage type, outputs					
Switching voltage, outputs	Typ. U _B / 0 V				
Voltage type, inputs	DC				
Switching voltage, inputs	high: ≥6V low: ≤4V				
Input/output 1					
Activation/disable delay	1 ms				
Timing					
Readiness delay	450 ms				
Cycle time	3.67 ms				
Response time per beam	10 µs				
Service interface					
Гуре	IO-Link				
IO-Link					
Function	Configuration via software Service				
Connection					
Jumber of connections	2 Piece(s)				
Plug outlet	Axial				
Connection 1					
Function	Configuration interface Signal IN				
	Signal OUT				
	Voltage supply				
Type of connection	Connector				
Thread size	M12				
Туре	Male				
Material	Metal				
No. of pins	8 -pin				
Encoding	A-coded				
Connection 2					
Function	Connection to transmitter				
Type of connection	Connector				
Thread size	M12				
Туре	Female				
Material	Metal				
No. of pins	5 -pin				
Encoding	A-coded				
Nechanical data					
Design	Cubic				
Dimension (W x H x L)	29 mm x 35.4 mm x 1,835 mm				
Housing material	Metal , Aluminum				

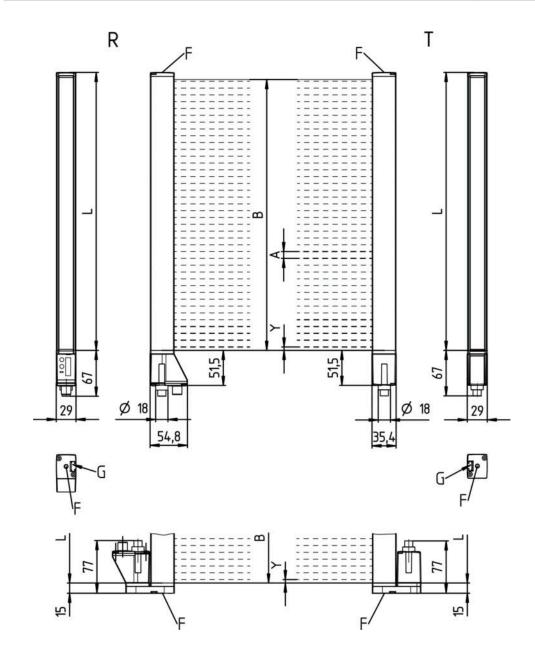
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Lens cover material	Plastic		
Net weight	1,900 g		
Housing color	Silver		
Type of fastening	Groove mounting Via optional mounting device		
Operation and display			
Type of display	LED OLED display		
Number of LEDs	2 Piece(s)		
Type of configuration	Software Teach-in		
Operational controls	Membrane keyboard		
Environmental data			
Ambient temperature, operation	-30 60 °C		
Ambient temperature, storage	-40 70 °C		
Certifications			
Degree of protection	IP 65		
Protection class			
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		
	EC002549		

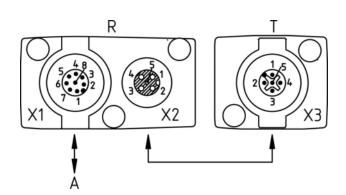
Dimensioned drawings

All dimensions in millimeters

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- A Beam spacing 5 mm B Measurement field length 1760 mm
- F M6 thread
- G Fastening groove
- L Profile length 1768 mm
- T Transmitter
- R Receiver
- Y 2.5 mm



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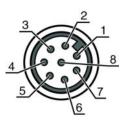
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A PWR / SW IN/OUT

Electrical connection

Connection 1				
Function	Configuration interface Signal IN Signal OUT Voltage supply			
Type of connection	Connector			
Thread size	M12			
Туре	Male			
Material	Metal			
No. of pins	8 -pin			
Encoding	A-coded			

Pin	Pin assignment
1	V+
2	I/O 1
3	GND
4	IO-Link
5	I/O 2
6	OUT V
7	OUT mA
8	AGND



Connection 2	
Function	Connection to transmitter
Type of connection	Connector
Thread size	M12
Туре	Female
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-			



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Operation and display

LEDs

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Green, flashing	Teach / error
		Measurement frequency display
2	Yellow, continuous light	Light path free, with function reserve
	Yellow, flashing	No function reserve
	Off	Object detected

Suitable transmitters

Part no.	Designation	Article	Description
50118597	CML730i- T05-1760.A-M12	Light curtain transmitter	Operating range: 0.1 4 m Connection: Connector, M12, Axial, 5 -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					
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.

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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 - Connection cables

	Part no.	Designation	Article	Description
50		KD S-M12-8A- P1-050		Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

Part no.	Designation	Article	Description
	KDS DN-M12-5A- M12-5A-P3-050	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
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

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Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
ęł.	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

Part no.	Designation	Article	Description
50121098	SET MD12-US2-IL1.1 + Zub.		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

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.