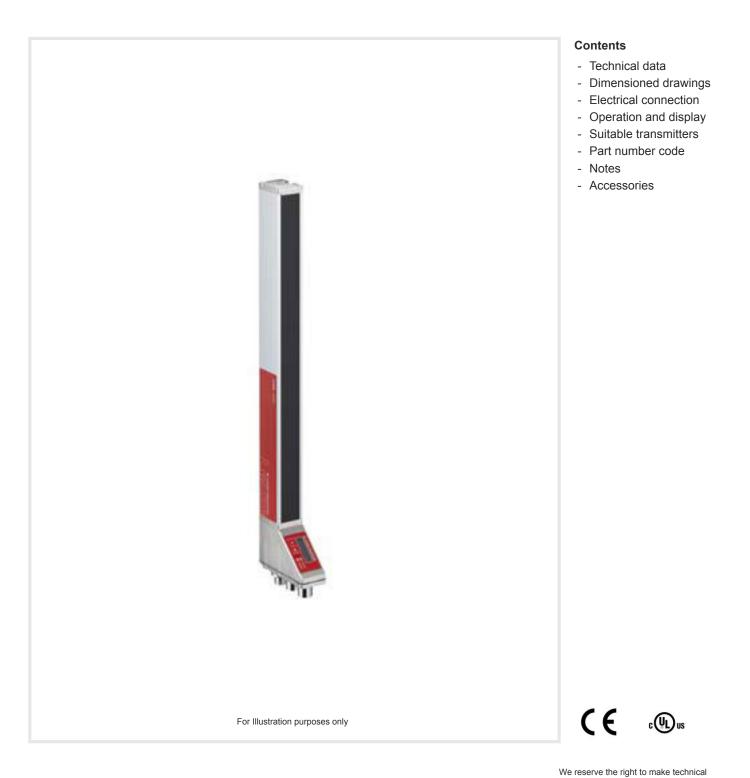


Technical data sheet Light curtain receiver Part no.: 50131778 CML730i-R10-320.A/PN-M12



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 changes

 The Sensor People
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 eng • 2025-04-05

Technical data

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Series	730
Operating principle	Throughbeam principle
Device type	Receiver
Contains	2x BT-NC sliding block
Application	Detection of transparent objects
	Object measurement
Special version	
Special version	Crossed-beam scanning
	Diagonal-beam scanning
	Parallel-beam scanning
	r didiici beam seaming
Optical data	
Operating range	0.3 9.5 m
	Guaranteed operating range
Operating range Operating range, transparent media	0.3 3.5 m
Operating range limit	0.2 12 m
Operating range limit	Typical operating range
Measurement field length	320 mm
Number of beams	32 Piece(s)
Beam spacing	10 mm
20un opuoling	
Measurement data	
Minimum object diameter	20 mm
Electrical data	
Protective circuit	Polarity reversal protection
	Short circuit protected
	Transient protection
Performance data	
Supply voltage U _B	18 30 V, DC
Residual ripple	0 15 %, From U _B
Open-circuit current	 165 mA, The specified values refer to the entire package consisting of trans mitter and receiver.
Inputs/outputs selectable	
Output current, max.	100 mA
Input resistance	6,000 Ω
Number of inputs/outputs selectab	. ,
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: ≤ 4 V
	10w. 2 4 V
Input/output 1	
Activation/disable delay	1 ms
Time behavior	
Readiness delay	1,500 ms
Cycle time	1 ms
Response time per beam	10 µs
	1.5
Interface	
Type	PROFINET

Туре

PROFINET

FunctionProtocessConformance classBProtocolPROFINET RTSwitch functionalityIntegratedTransmission speed10 Mbt/s100 Mbt/s100 Mbt/sService interfaceIO-LinkFunctionConfiguration via softwarePunctionServiceConnectionServiceNumber of connections3 Piece(s)Plug outletAxialConnection 1Configuration via softwareFunctionConfiguration interfaceConnection 1Configuration interfaceFunctionConfiguration interfaceConnection 1Configuration interfaceFunctionConnection to transmitterSignal 1NSignal 0UTVoltage supplyVoltage supplyType of connectionConnectorThread sizeM12Type of connection <t< th=""><th>PROFINET</th><th></th></t<>	PROFINET	
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Housing color Silver Type of fastening Groove mounting		
Type of fastening Groove mounting	•	0
	-	

Technical data

Leuze

Operation and display

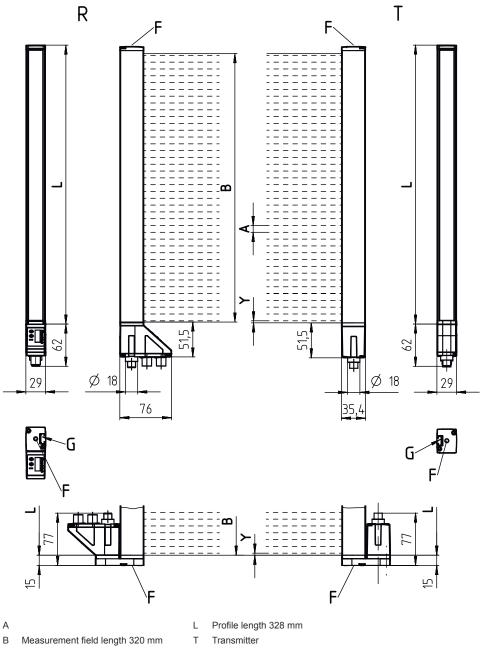
Type of display	LED			
	OLED display			
Number of LEDs	4 Piece(s)			
Type of configuration	Software			
	Teach-in			
Operational controls	Membrane keyboard			
Environmental data				
Ambient temperature, operation	-30 60 °C			
Ambient temperature, storage	-40 70 °C			
Certifications				
Degree of protection	IP 65			
Protection class	III			
Approvals	c UL US			
Approvals Standards applied	c UL US IEC 60947-5-2			

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



- F M6 thread G Fastening groove
- R Receiver
- Υ 5 mm

We reserve the right to make technical Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com changes
 The Sensor People
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 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2025-04-05

Leuze

Dimensioned drawings

В ٢ А В R С Ο

- PWR / SW IN / OUT BUS IN
- BUS OUT

Electrical connection Connection 1

A

Configuration interface Connection to transmitter Signal IN
Signal IN
olghai int
Signal OUT
Voltage supply
Connector
M12
Male
Metal
8 -pin

X1

Pin Pin assignment

1	V+	
2	I/O 1	
3	GND	
4	IO-Link	
5	I/O 2	
6	RS 485 Tx+	
7	RS 485 Tx+	
8	FE/SHIELD	

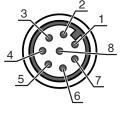
X2A

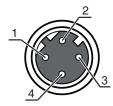
Connection 2

Function	BUS IN
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin Pin assignment

1 TD0+
2 RD0+
3 TD0-
4 RD0-







Electrical connection

Connection 3

Function	BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

X2B

Pin	Pin assignment
1	TD0+
2	RD0+
3	TD0-
4	RD0-

Operation and display

LED	Display	Meaning
1	Green, continuous light	Operational readiness
	Green, flashing	Teach / error
2	Yellow, continuous light	Light path free, with function reserve
	Yellow, flashing	No function reserve
	Off	Object detected
3	Green, continuous light (at the X2A / X2B connector)	Link
4	Yellow, continuous light (at the X2A / X2B connector)	Activity

Suitable transmitters

Part r	no. Designation	Article	Description
501186	614 CML730i-T10-3.	20.A- Light curtain	Operating range: 0.3 9.5 m
	M12	transmitter	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
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



Part number code



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				
Not	le				
	A list 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. 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
50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Accessories

Leuze

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50135081	KSS ET-M12-4A- RJ45-A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Y distribution cables

	Part no.	Designation	Article	Description
	50118183	K-Y1 M12A-5m- M12A-S-PUR	Interconnection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 3: Connector, M12, Axial, Female, A-coded, 8 -pin Shielded: Yes Cable length fork 1: 5,000 mm Cable length fork 2: 150 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

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

Services

	Part no.	Designation	Article	Description
с. С	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.

Accessories





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