

Technical data sheet Light curtain receiver Part no.: 50123296 CML730i-R05-2160.A/D3-M12



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We reserve the right to make technical changes

Technical data

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Basic data

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 Deprating range 0.1 4.5 m Operating range 0.1 4.5 m Operating range Guaranteed operating range Operating range ilmit 0.1 4.7 m Operating range ilmit 0.1 6 m Operating range ilmit 0.1 6 m Operating range ilmit 2.160 mm Number of beams 4.32 Piece(s) Beam spacing 5 mm Weasurement field length 2.160 mm Number of beams 4.32 Piece(s) Beam spacing 5 mm Weasurement field length 2.160 mm Supply voltage Ug 18 30 V, DC Residual ripple 0 45 %, From Ug Open-circuit current 0 45 %, From Ug Open-circuit current 0 45 %, Tree pecified values refer to the entire package consisting of trans-mitter and	Basic data	
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Response time per beam 10 µs Interface Type RS 485 Modbus RS 485 Function Process Service interface	Time behavior	
Interface Type RS 485 Modbus RS 485 Function Process Service interface	Cycle time	4.47 ms
Type RS 485 Modbus RS 485 Function Process Service interface	Response time per beam	10 µs
RS 485 Function Process Service interface	Interface	
Function Process Service interface Image: Comparison of the service of	Туре	RS 485 Modbus
Service interface	RS 485	
	Function	Process
	Overstand Instant	
Type IO-Link	Service Interface	

IO-Link	
Function	Configuration via software
	Service
Connection	
Number of connec	ions 2 Piece(s)
Plug outlet	Axial
-	
Connection 1	
Function	Configuration interface
	Connection to transmitter
	Signal IN
	Signal OUT Voltage supply
Type of connect	
Thread size	M12
Туре	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded
Connection 2	
Function	BUS IN
Turne of common	BUS OUT
Type of connect Thread size	on Connector M12
Type	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded
Mechanical data	
Design	Cubic
Dimension (W x H	
Housing material	Metal
Metal housing Lens cover materi	Aluminum Plastic
Net weight	2,250 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device
Operation and d	splay
Type of display	LED
	OLED display
Number of LEDs	2 Piece(s)
Type of configurat	on Software
	Teach-in
Operational contro	s Membrane keyboard
Environmental o	ita
Ambient temperat	re, operation -30 60 °C
Ambient temperat	re, storage -40 70 °C
Certifications	
	n IP 65
Degree of protecti	n IP 65 III
Certifications Degree of protecti Protection class Approvals	

Technical data

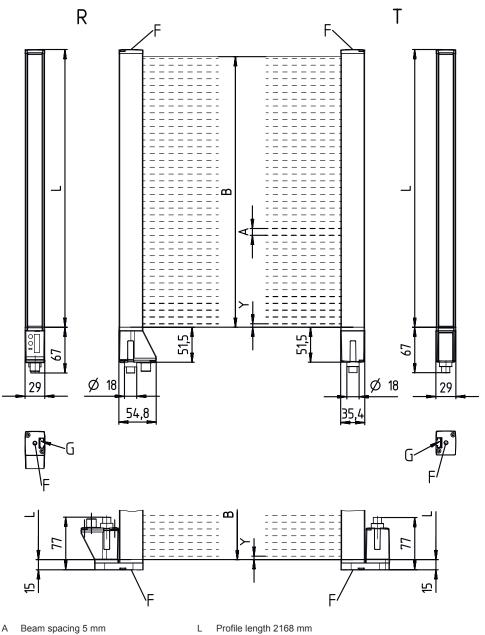
Customs tariff number	90314990
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ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ECLASS 15.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549
ETIM 10.0	EC002549

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Dimensioned drawings

All dimensions in millimeters



Beam spacing 5 mm А

Fastening groove

- В Measurement field length 2160 mm
- F M6 thread

G

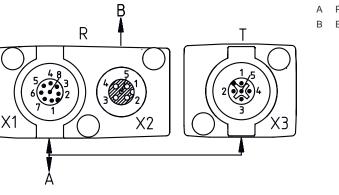
- Transmitter Т R Receiver
 - 2.5 mm Υ

We reserve the right to make technical Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com changes
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Dimensioned drawings





A PWR / SW IN / OUTB BUS IN / OUT

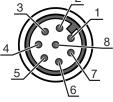
Electrical connection

Connection 1

Function	Configuration interface
	Connection to transmitter
	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	RS 485 Tx+		
7	RS 485 Tx+		
8	FE/SHIELD		



Connection 2

Function	BUS IN
	BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	B-coded

Electrical connection

Pin Pin assignment 1 V+ 2 Tx 3 PB GND 4 Tx+ 5 FE/SHIELD

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

Suitable transmitters

 Part no.	Designation	Article	Description
50118602	CML730i-T05- 2160.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
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



Part number code



DDD	Special equipment -PS: Power Setting			
EEE	Electrical connection M12: M12 connector			
FFF	FFF -EX: Explosion protection			
	Note			
A	∜ 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

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

Accessories

Leuze

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

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