

Technical data sheet Light curtain receiver Part no.: 50123386 CML730i-R05-2720.R/D3-M12



The Sensor People In der Braike 1, 73277 Owen

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com

Phone: +49 7021 573-0 • Fax: +49 7021 573-199

Technical data

Leuze

Racio data

ughbeam principle iver ssories for the use of the BT-2R1 ction of transparent objects ct measurement sed-beam scanning onal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range . 6 m
iver ssories for the use of the BT-2R1 ction of transparent objects ct measurement sed-beam scanning onal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
ssories for the use of the BT-2R1 ction of transparent objects ct measurement sed-beam scanning onal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
ction of transparent objects ct measurement sed-beam scanning onal-beam scanning lel-beam scanning . 4.5 m . 1.75 m al operating range
ct measurement sed-beam scanning onal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
sed-beam scanning onal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
bonal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
enal-beam scanning lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
lel-beam scanning anteed operating range . 4.5 m . 1.75 m al operating range
anteed operating range . 4.5 m . 1.75 m al operating range
. 4.5 m . 1.75 m al operating range
. 4.5 m . 1.75 m al operating range
. 1.75 m al operating range
al operating range
. 0 111
) mm
Piece(s)
1
m
ity reversal protection
circuit protected
sient protection
30 V, DC
15 %, From U _B
135 mA, The specified values refer
entire package consisting of trans- r and receiver.
co(s)
ce(s)
ce(s) s/outputs selectable
s/outputs selectable
s/outputs selectable
s/outputs selectable U _B / 0 ∨ ≥6V
s/outputs selectable
s/outputs selectable U _B / 0 ∨ ≥6V
s/outputs selectable U _B / 0 ∨ ≥6V
s/outputs selectable U _B / 0 ∨ ≥6V
s/outputs selectable U _B / 0 ∨ ≥6∨ ≤4V
s/outputs selectable U _B / 0 ∨ ≥6∨ ≤4∨
s/outputs selectable U _B / 0 ∨ ≥6∨ ≤4V
s/outputs selectable U _B / 0 V ≥6V ≤4V
s/outputs selectable U _B / 0 ∨ ≥6∨ ≤4∨ ms s 85 Modbus
s/outputs selectable U _B / 0 V ≥6V ≤4V
s/outputs selectable U _B / 0 ∨ ≥6∨ ≤4∨ ms s 85 Modbus
9 με

IO-Link	
Function	Configuration via software
	Service
Connection	
Number of connections	2 Piece(s)
Plug outlet	Rear side
5	
Connection 1	
Function	Configuration interface
	Connection to transmitter
	Signal IN
	Signal OUT
The state of the s	Voltage supply
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin A-coded
Encoding	A-couleu
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
Mechanical data	
Design	Cubic
Dimension (W x H x L)	29 mm x 35.4 mm x 2,743 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	2,800 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
Degree of protection Protection class	IP 65
Certifications	c CSA US
Standards applied	IEC 60947-5-2

 Leuze electronic GmbH + Co. KG
 info@leuze.com • www.leuze.com
 We reserve the rig

 The Sensor People
 In der Braike 1, 73277 Owen
 Phone: +49 7021 573-0 • Fax: +49 7021 573-199
 eng • 2020-12-20

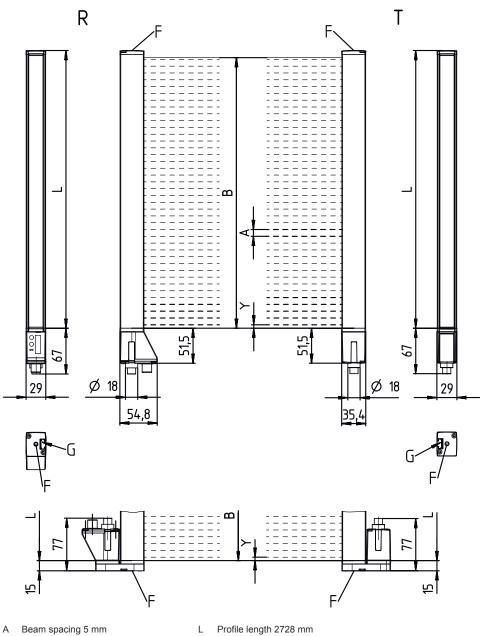
Technical data

Customs tariff number	90314990
eCl@ss 5.1.4	27270910
eCl@ss 8.0	27270910
eCl@ss 9.0	27270910
eCl@ss 10.0	27270910
eCl@ss 11.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549

Leuze

Dimensioned drawings

All dimensions in millimeters



- Beam spacing 5 mm А
- В Measurement field length 2720 mm
- F M6 thread G Fastening groove
- Т R Receiver
 - 2.5 mm Υ

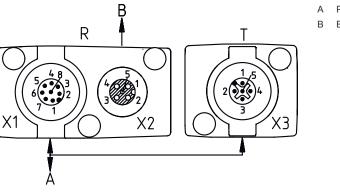
Transmitter

Leuze electronic GmbH + Co. KG info@leuze.com • www.leuze.com The Sensor People In der Braike 1, 73277 Owen Phone: +49 7021 573-0 • Fax: +49 7021 573-199



Dimensioned drawings





A PWR / SW IN / OUTB BUS IN / OUT

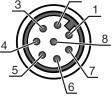
Electrical connection

Connection 1

Function	Configuration interface
Function	, C
	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

1 2

3

4

5

Pin assignment V+ Tx PB GND Tx+ FE/SHIELD



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
50118945	CML730i-T05- 2720.R-M12	Light curtain transmitter	Operating range: 0.1 4 m Connection: Connector, M12, Rear side, 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

6/8

Leuze

Part number code



7/8

DDD	Special equipment -PS: Power Setting
EEE	Electrical connection M12: M12 connector
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 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

	Part no.	Designation	Article	Description
	50123265	K-YPB M12A-5m- M12A-S-PUR	Interconnection cable	Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 5 -pin Connection 2: Cable with connector, M12, Axial, Female, B-coded, 5 -pin Connection 3: Cable with connector, M12, Axial, Male, B-coded, 5 -pin Shielded: Yes Sheathing material: PUR

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
1 + 1 + 1 + 1 + 1	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

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
ęę.	429046	BT-2R1	Mounting bracket set	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
y;	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 website in the Download tab of the article detailed page.