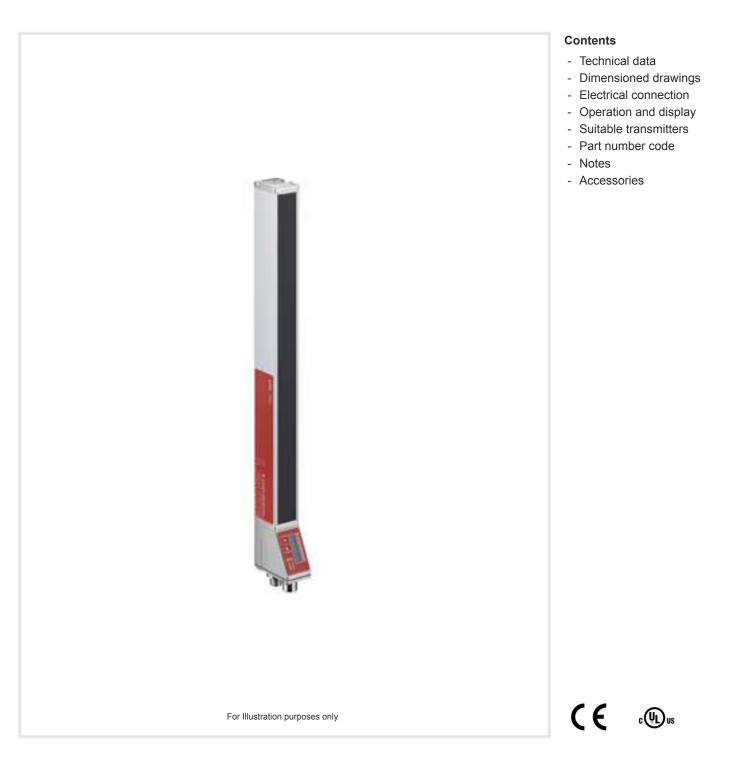


Technical data sheet Light curtain receiver Part no.: 50123347 CML730i-R40-1250.A/D3-M12



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Technical data

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Basic data

Basic data	
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
Optical data	
Operating range	0.3 9.5 m
Operating range	Guaranteed 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	1,250 mm
Number of beams	31 Piece(s)
Beam spacing	40 mm
Measurement data	
Minimum object diameter	50 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	0 270 mA, The specified values refer to the entire package consisting of transmitter and receiver.
Inputs/outputs selectable	
Number of inputs/outputs selectable	
Type	Inputs/outputs selectable
Voltage type, outputs	
Switching voltage, outputs Switching voltage, inputs	Typ. U _B / 0 V high: ≥6V
Switching voltage, inputs	$ ow: \leq 4 \vee$
	10. 2 - 1
Input/output 1	
Time behavior	
Cycle time	1 ms
Response time per beam	10 µs
Interface	
Туре	RS 485 Modbus
RS 485	
Function	Process
Service interface	
Туре	IO-Link

	IO-Link Function	Configuration via software
		Service
c	onnection	
1	umber of connections	2 Piece(s)
I	ug outlet	Axial
	Connection 1 Function	Operfigureties interface
	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
	-	
	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
•	echanical data	
a	sign	Cubic
i	mension (W x H x L)	29 mm x 35.4 mm x 1,355 mm
	ousing material	Metal
(etal housing	Aluminum
	ens cover material	Plastic
8	et weight	1,450 g
(ousing color	Silver
	pe of fastening	Groove mounting
		Via optional mounting device
	peration and display	
	pe of display	LED
		OLED display
	umber of LEDs	2 Piece(s)
		Software
	pe of configuration	Juliwale
	pe of configuration	Teach-in
	pe of configuration	
p	perational controls	Teach-in
r	perational controls	Teach-in Membrane keyboard
	perational controls nvironmental data nbient temperature, operation	Teach-in Membrane keyboard -30 60 °C
	perational controls	Teach-in Membrane keyboard
	perational controls nvironmental data nbient temperature, operation	Teach-in Membrane keyboard -30 60 °C
	perational controls nvironmental data nbient temperature, operation nbient temperature, storage	Teach-in Membrane keyboard -30 60 °C
	perational controls nvironmental data nbient temperature, operation nbient temperature, storage ertifications	Teach-in Membrane keyboard -30 60 °C -40 70 °C
	perational controls nvironmental data nbient temperature, operation mbient temperature, storage ertifications egree of protection	Teach-in Membrane keyboard -30 60 °C -40 70 °C IP 65

Technical data

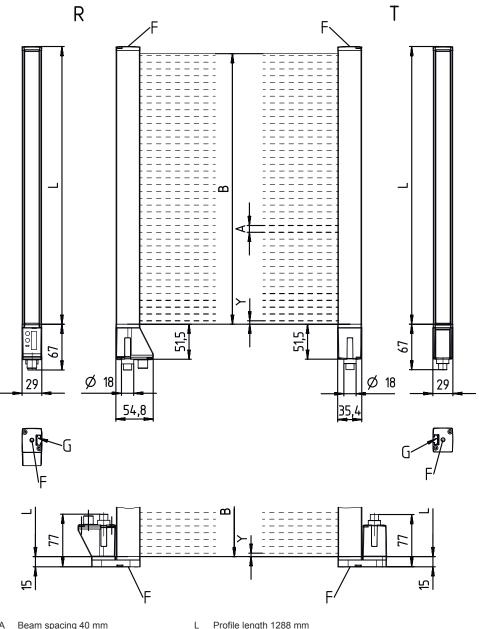
Customs tariff number	90314990
ECLASS 5.1.4	27270910
ECLASS 8.0	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ECLASS 13.0	27270910
ECLASS 14.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
ETIM 9.0	EC002549

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Dimensioned drawings

All dimensions in millimeters



- Beam spacing 40 mm А
- В Measurement field length 1250 mm
- F M6 thread G
 - Fastening groove
- Profile length 1288 mm
- Transmitter
- R Receiver

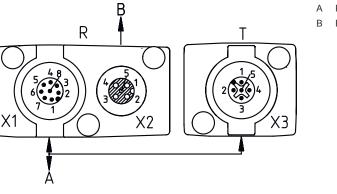
Т

5 mm Υ

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Dimensioned drawings





A PWR / SW IN / OUTB BUS IN / OUT

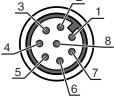
Electrical connection

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	$-\frac{2}{\sqrt{2}}$
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
50118650	CML730i-T40- 1250.A-M12	Light curtain transmitter	Operating range: 0.3 9.5 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	-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. 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

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