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Part no.: 50133785 CML730i-R05-480.R/CV-PS-M12 Light curtain receiver





Contents

- Technical data
- · Dimensioned drawings
- Electrical connection
- · Operation and display
- Suitable transmitters
- Part number code
- Notes
- Accessories

Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

Technical data

Basic data	
Series	730
Operating principle	Throughbeam principle
Device type	Receiver
Contains	Accessories for the use of the BT-2R1
Application	Detection of transparent films Detection of transparent objects Object detection in film tube Object measurement Radiation of semi-transparent media
Optical data	
Operating range	Guaranteed operating range
Operating range	0.1 4.5 m
Operating range, transparent media	0.1 1.75 m
Operating range limit	Typical operating range
Operating range limit	0.1 6 m
Measurement field length	480 mm
Number of beams	96 Piece(s)
Beam spacing	5 mm
Dealli shacing	5 mm
Measurement data	
Minimum object diameter	10 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	0 165 mA , The specified values refer to the entire package consisting of transmitter and receiver.
Outputs	
Number of analog outputs	1 Piece(s)
Analog outputs	
Current	0 24 mA
Voltage	0 11 V
Analog output 1	
Туре	Freely configurable
Inputs/outputs selectable	
Output current, max.	100 mA
Input resistance	6,000 Ω
Number of inputs/outputs selectable	3 Piece(s)
Туре	Inputs/outputs selectable
Voltage type, outputs	DC
Switching voltage, outputs	Typ. U _B / 0 V
Switching voltage, inputs	high: ≥6V low: ≤4V
Input/output 1	
Activation/disable delay	1 ms

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Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

mmg 450 ms Cycle line 1.11 ms Response time per beam 10 µs Service interface IO-Link IO-Link Configuration via software Service Function Configuration via software Service Connection Service interface Number of connections 2 Piece(s) Plug outiet Rear side Connection 1 Configuration interface Function Connector 1 Function Connector 1 Type of connection Connector 1 Type of connector Material No. of prins 8 - prin Encoding A coded Connector 2 Encodin Connector 1 Connector 1 Type of connector Connector 1 Type of cono	Timina				
Cycle time 1.11 ms Response time per beam 10 µs Service interface 10 µs Type IO-Link IO-Link IO-Link IO-Link IO-Link Function Configuration via software Service Connection Configuration via software Service Service Connection Configuration via software Connection 1 Configuration interface Signal IN Signal IN Signal IN Signal IN Signal IN Signal IN Type of connection Connector Thread size M12 Type of connection 2 Encoding A-coded Connector Connection 2 Function Connection 3 8-pin Encoding A-coded Connection 4 Connector Function Connector Type 5 Female Material Metal No. of pins 5-pin Encoding A-coded Material Metal No. of pins 5-pin Encoding A-coded Material Metal No. of pins 5-pin Encoding A-cod	Timing	450 mg			
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Mechanical data Design Cubic Dimension (W x H x L) 29 mm x 35.4 mm x 503 mm Housing material Metal , Aluminum Lens cover material Plastic Net weight 750 g Housing color Silver Type of fastening Groove mounting Via optional mounting device Operation and display LED	No. of pins	5 -pin			
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Lens cover material Plastic Net weight 750 g Housing color Silver Type of fastening Groove mounting Via optional mounting device Operation and display LED	Dimension (W x H x L)	29 mm x 35.4 mm x 503 mm			
Net weight 750 g Housing color Silver Type of fastening Groove mounting Via optional mounting device	Housing material	Metal , Aluminum			
Housing color Silver Type of fastening Groove mounting Via optional mounting device Operation and display LED	Lens cover material				
Type of fastening Groove mounting Via optional mounting device Operation and display LED	Net weight	750 g			
Via optional mounting device Operation and display Type of display LED	Housing color	Silver			
Operation and display Type of display LED	Type of fastening	Groove mounting Via optional mounting device			
Type of display LED					
	Operation and display				
	Type of display				
Number of LEDs 2 Piece(s)	Number of LEDs				
Type of configuration Software		Software			
Teach-in					
Operational controls Membrane keyboard	Operational controls	Membrane Keyboard			

Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

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 III	

IEC 60947-5-2

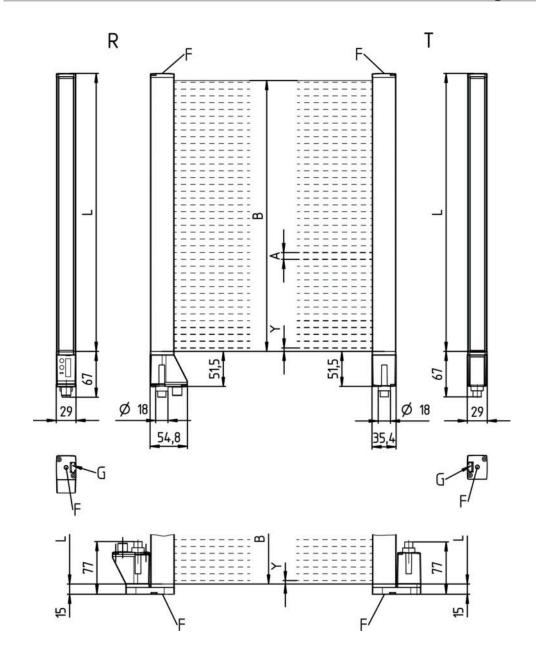
Classification	
Customs tariff number	90314990
eCl@ss 8.0	27270910
eCl@ss 9.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549

Dimensioned drawings

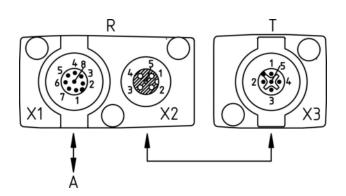
All dimensions in millimeters

Standards applied

Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver



- A Beam spacing 5 mm B Measurement field length 480 mm
- F M6 thread
- G Fastening groove
- L Profile length 488 mm
- T Transmitter
- R Receiver
- Y 2.5 mm



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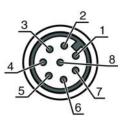
Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

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	I/O 3
7	OUT mA / V
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-			



Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

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
 50133786	CML730i- T05-480.R-PS- M12	Light curtain transmitter	Operating range: 0.1 4.5 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			
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.

Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

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
50129781	KDS DN-M12-5A- M12-5A-P3-050	Interconnection 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

Part no.: 50133785 – CML730i-R05-480.R/CV-PS-M12 – Light curtain receiver

Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
RR.	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.