



the sensor people





Figure can vary

Part no.: 50131762 CML730i-R10-1760.A/PN-M12 Light curtain receiver





# **Contents**

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



### **Technical 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
Optical data	
Operating range	Guaranteed operating range
Operating range	0.3 9.5 m
Operating range, transparent media	0.3 3.5 m
Operating range limit	Typical operating range
Operating range limit	0.2 12 m
Measurement field length	1,760 mm
Number of beams	176 Piece(s)
Beam spacing	10 mm
Measurement data	
Minimum object diameter	20 mm
Electrical data	
Protective circuit	Polarity reversal protection Short circuit protected Transient protection
Performance data	
Supply voltage U <sub>B</sub>	18 30 V , DC
Residual ripple	0 15 % , From U <sub>B</sub>
Open-circuit current	0 350 mA , The specified values refer to the entire package consisting of transmitter and receiver.
Inputs/outputs selectable	
Output current, max.	100 mA
Input resistance	6,000 Ω
Number of inputs/outputs selectable	2 Piece(s)
Туре	Inputs/outputs selectable
Voltage type, outputs	DC
Switching voltage, outputs	Typ. U <sub>B</sub> / 0 V
Voltage type, inputs	DC
Switching voltage, inputs	high: ≥6V Iow: ≤4V
Input/output 1	
Activation/disable delay	1 ms
Timing	
Readiness delay	1,500 ms
Cycle time	1.91 ms
Response time per beam	10 μs

Interface



Process	Туре	PROFINET
Description	Profinet	
Protocol	Function	Process
Switch functionality Transmission speed 10 Mibris  Service interface Type 10-Link  Function Configuration via software Service  Connection Number of connections Number of connections Tenction Connection Connection Connection  Function Connection Tread size Material No. of pins Encoding Material Metal Motor of connection BUS OUT Type of connection BUS IN Type of connection Connection Connection BUS IN Type of connection Connection BUS IN Type of connection Connection BUS IN Type of connection Connection BUS IN Type of connection BUS IN Type of connection BUS IN Type of connection Connection BUS IN Type of connection BUS IN Type of connection Connection BUS IN Type of connection Thread size M412 Type Female Material Metal Metal Motor of pins BUS OUT Type of connection Connection Type of connection Connection BUS OUT Type of connection Type of connection Connection Decoded Connection Connector Thread size M42 Decoded Connection Decoded  Mechanical data Decoded  Mechanical data Decoded Demension (W x H x L)	Conformance class	В
Transmission speed	Protocol	PROFINET RT
Service Interface Type IO-Link  IO-Link Function Configuration via software Service  Connection Number of connections 3 Piecet(s) Plug outlet Axial  Connection Connection to transmitter Signal IN Signal IN Signal OUT Type of connection Connector  Type of connection Connector Thread size M12 Type Material Metal No. of pins 8-pin Encoding Connection BUS IN Type of connection Connector Thread size M12 Fupcion BUS IN Type of connection BUS IN Type of connection Connector Thread size M12 Fupcion BUS IN Type of connection Connector Thread size M12 Fupcion BUS IN Type of connection Connector Thread size M12 Type Femele Material Metal Moto of pins 4-pin Encoding Connection Connector Thread size M2 Function BUS OUT Type of connection Connector Thread size M412 Type Femele Material Metal Motor of pins 4-pin Encoding Connection Connector Type of connection Connector Type of connection Generation Metal Motor of pins 4-pin Encoding Connection Connector Type Female Material Metal Motor of pins 4-pin Encoding Connector Thread size M12 Type Female Material Metal Motor of pins 4-pin Encoding Connector Thread size M12 Type Female Material Metal Motor pins 4-pin Encoding Connector Thread size M12 Type Female Material Metal Motor pins 4-pin Encoding Connector Thread size M12 Type Female Material Metal Motor pins 4-pin Encoding Connector December of Connector Thread size M12 Type Female Material Metal Motor pins 4-pin Encoding Connector	Switch functionality	Integrated
Service interface   Type   IO-Link	Transmission speed	
Type         IO-Link           Function         Configuration via software           Service         Service           Connection         Axial           Connection of Connection of Connection of Variantities of Variantit		100 Mbit/s
IO-Link   Function   Configuration via software   Service	Service interface	
Function Service  Connection  Number of connections 3 Piece(s)  Plug outlet Axial  Connection 1  Function Conjugation interface Connection to transmitter Signal IN Signal OUT Voltage supply  Type of connection  Material Metal No. of pins 8-pin Encoding A-coded  Connector  Thread size M12  Function BUS IN Type of connection  Thread size M12  Function BUS IN Type of connection  Thread size M12  Function BUS IN Type of connection  Thread size M12  Function BUS IN Type of connection  Thread size M12  Type Female  Material Metal  Metal  Moterial Metal  Moterial Metal  Material Metal  Moterial Metal  Moterial Metal  Moterial Metal  Moterial Metal  Moterial Metal  Moterial Metal  No. of pins 4-pin Encoding D-coded  Connector  Thread size M12  Type Female  Material Metal  Moterial BUS OUT  Type of connection  Connector  Thread size M12  Type Female  Material Metal  Moterial	Туре	IO-Link
Service	IO-Link	
Number of connections         3 Piece(s)           Plug outlet         Axial           Connection 1         Configuration interface Connection to transmitter Signal IN Signal OUT Voltage supply           Type of connection         Connector           Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2         Encoding           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M2 -pin <td>Function</td> <td>Configuration via software Service</td>	Function	Configuration via software Service
Number of connections         3 Piece(s)           Plug outlet         Axial           Connection 1         Configuration interface Connection to transmitter Signal IN Signal OUT Voltage supply           Type of connection         Connector           Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2         Encoding           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M12           Type of connection         Connector           Thread size         M2 -pin <td>Connection</td> <td></td>	Connection	
Plug outlet Axial  Connection 1 Function Configuration interface Connection to transmitter Signal NN Signal OUT Voltage supply  Type of connection Thread size M12 Type Male Material Metal No. of pins 8-pin Encoding A-coded  Connection Connector  Thread size M12  Function BUS IN Type of connection Thread size M12  Function BUS IN Type of connection Connector Thread size M12  Function BUS IN Type Female Material Metal No. of pins 4-pin Encoding D-coded  Connection 3  Function BUS OUT Type of connection Type of connection Connection D-coded  Metal No. of pins D-coded		3 Piece(s)
Connection 1 Function  Configuration interface Connection to transmitter Signal NN Signal OUT Voltage supply  Type of connection  Thread size  M12  Type Material Metal No. of pins BUS IN  Type of connection  Thread size  M12  Connection 2 Function BUS IN  Type of connection  Thread size M12  Type Female Material Metal No. of pins BUS IN  Type of connection  Thread size M12  Type Busin  Encoding BUS OUT  Type of connection  Connector  Thread size M12  Type Female Material Metal No. of pins BUS OUT  Type of connection  Connection  Type of connection  Connection  Encoding D-coded  Connection  Type of connection  Type of connection  Type of connection  Connection  Type of connection  Connection  Type of connection  D-coded  Connection  Thread size M12  Type Female Material Metal No. of pins A - pin  Encoding D-coded  Metal No. of pins D-coded		
Function Configuration interface Connection to transmitter Signal IN Signal OUT Voltage supply  Type of connection Connector Thread size M12 Type Male Material Metal No. of pins 8 - pin Encoding A-coded  Connection BUS IN Type of connection Connector Thread size M12 Type of connection BUS IN Type of connection Connector Thread size M12 Type Female Material Metal No. of pins 4 - pin Encoding D-coded  Connection 3 Function BUS OUT Type of connection Connector Thread size M12 Type Female Material Metal No. of pins 4 - pin Encoding D-coded  Connection BUS OUT Type of connection Connector Thread size M12 Type Female Material Metal No. of pins 4 - pin Encoding D-coded  Connection Connector Thread size M12 Type Female Material Metal No. of pins A - pin Encoding D-coded  Metal No. of pins A - pin Encoding D-coded		
Thread size         M12           Type         Male           Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm		Connection to transmitter Signal IN Signal OUT
Type         Male           Material         Metal           No. of pins         8 - pin           Encoding         A-coded           Connection 2         Type           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 - pin           Encoding         D-coded           Connection 3         Sus OUT           Type of connection         Connector           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 - pin           Encoding         D-coded           Mechanical data         D-coded           Mechanical data         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Type of connection	Connector
Material         Metal           No. of pins         8 -pin           Encoding         A-coded           Connection 2         Function           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connector         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Thread size	M12
No. of pins         8 -pin           Encoding         A-coded           Connection 2         Type           Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded    Mechanical data  Design  Cubic  Dimension (W x H x L)  29 mm x 35.4 mm x 1,835 mm	Туре	Male
Encoding         A-coded           Connection 2         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data         D-coded           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Material	Metal
Connection 2         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded    Mechanical data  Design  Cubic  Dimension (W x H x L)  29 mm x 35.4 mm x 1,835 mm	No. of pins	8 -pin
Function         BUS IN           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Encoding	A-coded
Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Connection 2	
Thread size M12  Type Female  Material Metal  No. of pins 4 -pin  Encoding D-coded  Connection 3  Function BUS OUT  Type of connection  Thread size M12  Type Female  Material Metal  No. of pins 4 -pin  Encoding D-coded	Function	BUS IN
Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Type of connection	Connector
Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Thread size	M12
No. of pins         4 -pin           Encoding         D-coded           Connection 3         Function           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Туре	Female
Encoding         D-coded           Connection 3         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Material	Metal
Connection 3           Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	No. of pins	4 -pin
Function         BUS OUT           Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Encoding	D-coded
Type of connection         Connector           Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Connection 3	
Thread size         M12           Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data         Design           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Function	BUS OUT
Type         Female           Material         Metal           No. of pins         4 -pin           Encoding         D-coded           Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Type of connection	Connector
Material         Metal           No. of pins         4 -pin           Encoding         D-coded             Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Thread size	M12
No. of pins         4 -pin           Encoding         D-coded             Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Туре	Female
Encoding         D-coded           Mechanical data         Cubic           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Material	Metal
Mechanical data           Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	No. of pins	4 -pin
Design         Cubic           Dimension (W x H x L)         29 mm x 35.4 mm x 1,835 mm	Encoding	D-coded D-coded
Dimension (W x H x L) 29 mm x 35.4 mm x 1,835 mm	Mechanical data	
	Design	Cubic
Housing material Metal , Aluminum	Dimension (W x H x L)	29 mm x 35.4 mm x 1,835 mm
	Housing material	Metal , Aluminum

Plastic

Lens cover material



Net weight	1,900 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	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	

Certifications	c CSA US	
Standards applied	IEC 60947-5-2	
Classification		
Classification		

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 Customs tariff number
 90314990

 eCl@ss 8.0
 27270910

 eCl@ss 9.0
 27270910

 ETIM 5.0
 EC002549

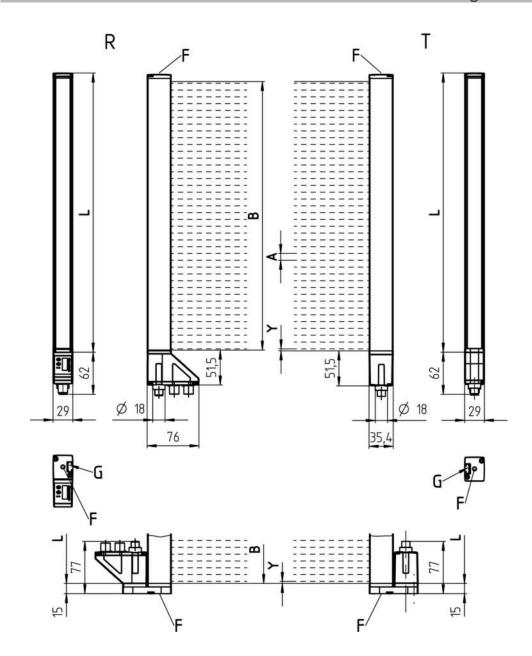
 ETIM 6.0
 EC002549

# **Dimensioned drawings**

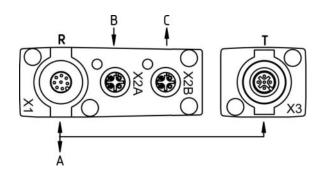
All dimensions in millimeters

Protection class





- B Measurement field length 1760 mm
- F M6 thread
- G Fastening groove L Profile length 1768 mm
- T Transmitter
- R Receiver
- Y 5 mm



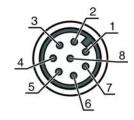


A PWR / SW IN/OUT B BUS IN C BUS OUT

### **Electrical connection**

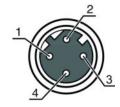
Connection 1	X1	
Function	Configuration interface Connection to transmitter Signal IN Signal OUT Voltage supply	
Type of connection	Connector	
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	8 -pin	
Encoding	A-coded	

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	X2A
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-

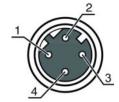


Connection 3	X2B
Function	BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female



Connection 3	X2B
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

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



### **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
3	Green, continuous light (at the X2A / X2B connector)	Link
4	Yellow, continuous light (at the X2A / X2B connector)	Activity

### Suitable transmitters

Part no.	Designation	Article	Description
50118622	CML730i- T10-1760.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	<b>Series:</b> 720i: 720i series 730i: 730i series
Y	Device type: T: transmitter R: receiver

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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.

#### **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

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Pa	Part no.	Designation	Article	Description
501		KS ET-M12-4A- P7-050		Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

# 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	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

# Mounting technology - Swivel mounts

	Part no.	Designation	Article	Description
EE.	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

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### 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.