



the sensor people





Figure can vary

Part no.: 50119928 CML720i-R05-2000.R/CN-M12 Light curtain receiver





# **Contents**

- Technical data
- . Dimensioned drawings
- Electrical connection
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- Suitable transmitters
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### **Technical data**

Series 720 Deretting principle Throughbeam principle Deretting principle Receiver Contains Accessories for the use of the BT-2R1 Object measurement Object measurement  Special design  Crossed-beam scanning Dagonal-beam scanning Dagonal-beam scanning Deretting range Deretting range Out3.5 m Object measurement Object design Object design Object measurement Object design Object design Object measurement file m	Basic data	
Departing principle   Throughbeam principle   Receiver   Receive		720
Device type Receiver Contains Accessories for the use of the BT-2R1 A		
Contains Accessories for the use of the BT-2R1 Object measurement Object measurement Special design Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning Parallel-beam scanning Parallel-beam scanning Parallel-beam scanning Object of the BT-2R1 Obj		
Application Object measurement  Special design  Crossed-beam scanning Diagonal-beam scanning Paralel-beam scan		
Special design  Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning Diagonal-beam scanning Diagona		
Special design  Crossed Asam scanning Deficial data  Deparating range  Deparating range  Deparating range  Deparating range  O.13.5 m  Deparating range imit  Deparating range  Deparating range imit  Deparating range imit  Deparating range  Deparating	Application	Object measurement
Special design  Crossed Asam scanning Deficial data  Deparating range  Deparating range  Deparating range  Deparating range  O.13.5 m  Deparating range imit  Deparating range  Deparating range imit  Deparating range imit  Deparating range  Deparating	Special design	
Diagonal-beam scanning Parallel-beam scanning Parallel paralle		Crossed-heam scanning
Operating range         Guaranteed operating range           Operating range ilmit         Typical operating range           Operating range limit         0.1 4.5 m           Operating range limit         2.000 mm           Measurement field length         2.000 mm           Number of beams         400 Piece(s)           Beam spacing         5 mm           Measurement data         400 mm           Minimum object diameter         10 mm           Electrical data         Polarity reversal protection Short circuit protected Transient protection           Performance data         Supply voltage UB           Supply voltage UB         18 30 V , DC           Residual ripple         0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.           Input/outputs selectable         0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.           Input resistance         6,000 Ω           Number of inputs/outputs selectable         2 Piece(s)           Type         Inputs/outputs selectable           Voltage type, outputs         DC           Switching voltage, outputs         Typ. UB / 0 V           Voltage type, inputs         DC           Switching voltage, inputs         Input/output 1 <td>special design</td> <td>Diagonal-beam scanning</td>	special design	Diagonal-beam scanning
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Deparating range   0.1 3.5 m   Deparating range limit   Typical operating range   Deparating range limit   0.1 4.5 m   Measurement field length   2,000 mm   Number of beams   400 Piece(s)   Seam spacing   5 mm    Measurement date   Minimum object diameter   10 mm    Polarity reversal protection   Short circuit   Polarity reversal protection   Short circuit protected   Transient protection   Performance date   Supply voltage UB   18 30 V , DC   Residual ripple   0 15 % , From UB   Open-circuit current   0 435 m A , The specified values refer to the entire package consisting of transmitter and receiver.  Input resistance   6,000 Ω   Number of inputs/outputs selectable   2 Piece(s)   Type   Inputs/outputs selectable   Voltage type, outputs   DC   Switching voltage, outputs   DC   Switching voltage, inputs   DC   Switching voltage		Guaranteed operating range
Operating range limit         Typical operating range           Operating range limit         0.1 4.5 m           Weasurement field length         2,000 mm           Number of beams         400 Piece(s)           Beam spacing         5 mm           Weasurement data         400 Piece(s)           Winimum object diameter         10 mm           Effectrical data         Polarity reversal protection           Performance data         Short circuit protected           Supply voltage UB         18 30 V , DC           Residual ripple         0 15 % , From UB           Open-circuit current         0 435 mA , The specified values refer to the entire package consisting of transmitter and receiver.           Inputs/outputs selectable         Output current, max.         100 mA           Unput resistance         6,000 Ω         Number of inputs/outputs selectable         2 Piece(s)           Type         Inputs/outputs selectable         DC           Switching voltage, outputs         DC           Switching voltage, outputs         DC           Switching voltage, inputs         DC           Input/output 1         Activation/disable delay         1 ms           Input/output 1         Activation/disable delay         1 ms		
Deparating range limit  0.1 4.5 m  Allowessurement field length  2,000 mm  400 Piece(s)  5 mm   Measurement data  Allinimum object diameter  10 mm   Performance data  Supply voltage UB  Residual ripple  Open-circuit current  Departicular current, max.  Input resistance  Input resistance  Supply solutage up to max.  Input resistance  Supply objectable  Output current, max.  100 mA  Input resistance  Supply objectable  Voltage type, outputs  DC  Switching voltage, inputs  DC  Switching voltage, inputs  DC  Switching voltage, inputs  Input output 1  Activation/disable delay  1 ms  Input fining  Readiness delay  450 ms  Sycle time  100 mA  11 ms  Input fining  Readiness delay  450 ms  Sycle time  12.4 ms	Operating range limit	
Measurement field length  Aumber of beams  400 Piece(s)  5 mm  Measurement data Minimum object diameter  10 mm  Flectrical data  Protective circuit  Polarity reversal protection Short circuit protected Transient protection Short circuit protected Transient protection  Performance data  Supply voltage Up  18 30 V , DC  Residual ripple  0 15 % , From UB  Open-circuit current  0 435 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 Q  Number of inputs/outputs selectable  Voltage type, outputs  DC  Switching voltage, outputs  DC  Switching voltage, inputs  DC  Input/output 1  Activation/disable delay  1 ms  Fliming  Readiness delay  450 ms  Dycle time  12.4 ms	Operating range limit	** * * * *
Aumber of beams 400 Piece(s)  Seam spacing 5 mm  Measurement data Minimum object diameter 10 mm  Floctrical data  Protective circuit Polarity reversal protection Short circuit protected Transient protected Transient protection  Performance data  Supply voltage UB 18 30 V , DC  Residual ripple 0 15 % , From UB  Open-circuit current 0 435 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)  Type Inputs/outputs selectable  Voltage type, outputs  DC  Switching voltage, outputs  DC  Switching voltage, inputs  DC  Switching voltage, inputs  DC  Input/output 1  Activation/disable delay 1 ms  Fining  Readiness delay 450 ms  Dycle time 12.4 ms	Veasurement field length	2,000 mm
Beam spacing     5 mm       Measurement data       Minimum object diameter       10 mm       Electrical data       Potarity reversal protection       Short circuit protected Transient protection       Performance data       Supply voltage UB       18 30 V , DC       Residual ripple     0 15 % , From UB       Open-circuit current     0 435 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)       Type     Inputs/outputs selectable       Voltage type, outputs     DC       Switching voltage, outputs     Typ. UB / 0 V       Voltage type, inputs     DC       Switching voltage, inputs     high: ≥6V low: ≤4V       Input/output 1     Activation/disable delay     1 ms       Firming       Readiness delay     450 ms       Cycle time     12.4 ms	Number of beams	
## Protective circuit Short circuit protected Transient protection Short protection Sh	Beam spacing	
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Flectrical data  Protective circuit  Performance data  Supply voltage UB  Residual ripple  Open-circuit current  Inputs/outputs selectable  Output current, max.  Input resistance  Number of inputs/outputs selectable  Voltage type, outputs  Switching voltage, inputs  DC  Switching voltage, inputs  Input/output 1  Activation/disable delay  Readiness delay  Polarity reversal protection Short circuit protected  Polarity reversal protection Short circuit protected  Table versal protection Short circuit protected  Table versal protection Short circuit protected  Table versal protection Short circuit protection Short circuit protection Short circuit protection  Table versal protection Short circuit protection Short circuit protection  Table versal protection Short circuit protection Short sircuit protection  Table versal protection Short circuit protection  Table versal protection  Table	Measurement data	
Performance data Supply voltage UB  Residual ripple  Open-circuit current  Output current, max.  Input resistance  Supply voltage type, outputs  Voltage type, outputs  Switching voltage, inputs  DC  Switching voltage, inputs  DC  Switching voltage, inputs  Criming  Readiness delay  A Supply voltage UB  18 30 V , DC  18 30 M , The specified values refer to the entire package consisting of transmitter and receiver.  Inputs/outputs selectable  100 mA  1	Minimum object diameter	10 mm
Supply voltage UB       18 30 V , DC         Residual ripple       0 15 % , From UB         Open-circuit current       0 435 mA , The specified values refer to the entire package consisting of transmitter and receiver.         Inputs/outputs selectable       0         Output current, max.       100 mA         Input resistance       6,000 Ω         Number of inputs/outputs selectable       2 Piece(s)         Type       Inputs/outputs selectable         Voltage type, outputs       DC         Switching voltage, outputs       Typ. UB / 0 V         Voltage type, inputs       DC         Switching voltage, inputs       DC         Switching voltage, inputs       high: ≥6V low: ≤4V         Input/output 1       Activation/disable delay       1 ms         Timing       450 ms         Cycle time       12.4 ms	Protective circuit	Short circuit protected
Residual ripple       0 15 % , From UB         Open-circuit current       0 435 mA , The specified values refer to the entire package consisting of transmitter and receiver.         Inputs/outputs selectable       100 mA         Output current, max.       100 mA         Input resistance       6,000 Ω         Number of inputs/outputs selectable       2 Piece(s)         Type       Inputs/outputs selectable         Voltage type, outputs       DC         Switching voltage, outputs       Typ. Ug / 0 V         Voltage type, inputs       DC         Switching voltage, inputs       high: ≥6V low: ≤4V         Input/output 1 Activation/disable delay       1 ms         Filming Readiness delay       450 ms         Cycle time       12.4 ms	Performance data	
Open-circuit current       0 435 mA , The specified values refer to the entire package consisting of transmitter and receiver.         Inputs/outputs selectable       100 mA         Output current, max.       100 mA         Input resistance       6,000 Ω         Number of inputs/outputs selectable       2 Piece(s)         Type       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 low: ≤4V         Input/output 1 Activation/disable delay       1 ms         Filming Readiness delay       450 ms         Cycle time       12.4 ms	Supply voltage U <sub>B</sub>	18 30 V , DC
Sisting 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)  Type Inputs/outputs selectable  Voltage type, outputs DC  Switching voltage, outputs DC  Switching voltage, inputs 1  Activation/disable delay 1 ms  Fiming  Readiness delay 450 ms  Sycle time 12.4 ms	Residual ripple	0 15 % , From U <sub>B</sub>
Output current, max. 100 mA   Input resistance 6,000 Ω   Number of inputs/outputs selectable 2 Piece(s)   Type 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   low: ≤4V    Input/output 1  Activation/disable delay  1 ms  Timing  Readiness delay  450 ms Cycle time  12.4 ms	Open-circuit current	0 435 mA , The specified values refer to the entire package consisting of transmitter and receiver.
Input resistance       6,000 Ω         Number of inputs/outputs selectable       2 Piece(s)         Type       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 low: ≤4V         Input/output 1 Activation/disable delay       1 ms         Fining       Readiness delay       450 ms         Cycle time       12.4 ms	Inputs/outputs selectable	
Number of inputs/outputs selectable       2 Piece(s)         Type       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 low: ≤4V         Input/output 1       Activation/disable delay         Activation/disable delay       1 ms         Fiming       450 ms         Cycle time       12.4 ms	- ·	
Type 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 low: ≤4V  Input/output 1  Activation/disable delay 1 ms  Fiming  Readiness delay 450 ms  Cycle time 12.4 ms	<u> </u>	
Voltage type, outputs DC   Switching voltage, outputs Typ. U <sub>B</sub> / 0 V   Voltage type, inputs DC   Switching voltage, inputs high: ≥6V   low: ≤4V    Input/output 1  Activation/disable delay  1 ms  Timing  Readiness delay  450 ms  Cycle time  12.4 ms	Number of inputs/outputs selectable	2 Piece(s)
Switching voltage, outputs  Voltage type, inputs  DC  Switching voltage, inputs  high: ≥6V   low: ≤4V  Input/output 1  Activation/disable delay  1 ms  Timing  Readiness delay  450 ms  Cycle time  12.4 ms	Туре	Inputs/outputs selectable
Voltage type, inputs DC   Switching voltage, inputs high: ≥6V low: ≤4V     Input/output 1 1 ms   Activation/disable delay  1 ms  Fiming Readiness delay  450 ms  Cycle time  12.4 ms		
Switching voltage, inputs  high: ≥6V   low: ≤4V  Input/output 1  Activation/disable delay  1 ms  Timing  Readiness delay  450 ms  Cycle time  12.4 ms	Switching voltage, outputs	Typ. U <sub>B</sub> / 0 V
Input/output 1	Voltage type, inputs	DC
Activation/disable delay 1 ms  Fiming Readiness delay 450 ms Cycle time 12.4 ms	Switching voltage, inputs	
Timing Readiness delay 450 ms Cycle time 12.4 ms	Input/output 1	
Readiness delay 450 ms Cycle time 12.4 ms	Activation/disable delay	1 ms
Readiness delay 450 ms Cycle time 12.4 ms	Timina	
Cycle time 12.4 ms	-	450 ms
	Response time per beam	30 µs



Interface		
Туре	CANopen	
	CANOPEN	
<b>CANopen</b> Function	Process	
1 unction	FIULESS	
Service interface	10.11.1	
Туре	IO-Link	
IO-Link		
Function	Configuration via software Service	
Connection		
Number of connections	2 Piece(s)	
Plug outlet	Rear side	
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	
Connection 2		
Function	BUS IN BUS OUT	
Type of connection	Connector	
Thread size	M12	
Туре	Female	
Material	Metal	
No. of pins	5 -pin	
Encoding	A-coded	
Mechanical data		
Design	Cubic	
Dimension (W x H x L)	29 mm x 35.4 mm x 2,023 mm	
Housing material	Metal , Aluminum	
Lens cover material	Plastic	
Net weight	2,150 g	
Housing color	Silver	
Type of fastening	Groove mounting	
	Via optional mounting device	
Operation and display		
Operation and display  Type of display	LED	
Type of display	OLED display	
Number of LEDs	2 Piece(s)	
Type of configuration	Software	
	Teach-in	

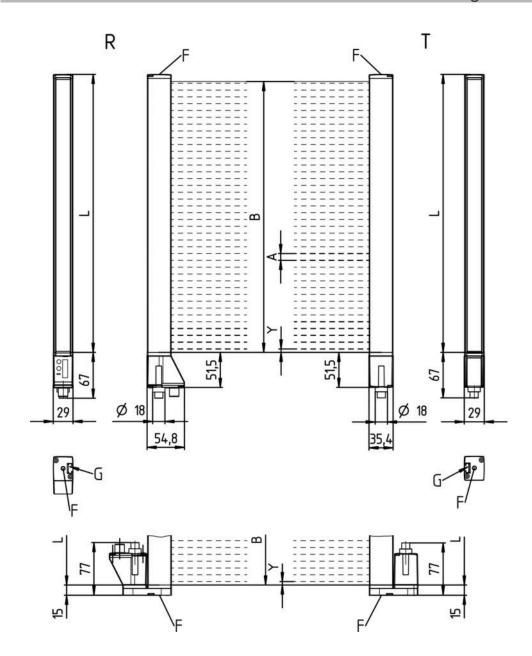


Environmental data			
Ambient temperature, operation	-30 60 °C	-30 60 °C	
Ambient temperature, storage	-40 70 °C		
Certifications			
Degree of protection	IP 65		
Protection class	III		
Certifications	c CSA US		
Standards applied	IEC 60947-5-2		
Classification			
Customs tariff number	90314990		
eCl@ss 8.0	27270910		
eCl@ss 9.0	27270910		
ETIM 5.0	EC002549		
ETIM 6.0	EC002549		

### **Dimensioned drawings**

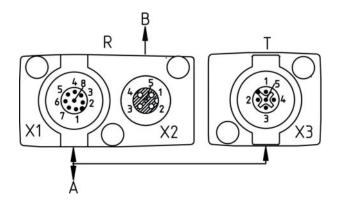
All dimensions in millimeters





- A Beam spacing 5 mm B Measurement field length 2000 mm
- F M6 thread
- G Fastening groove
- L Profile length 2008 mm
- T Transmitter
- R Receiver
- Y 2.5 mm



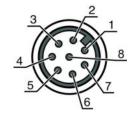


A PWR / SW IN/OUT B BUS IN / OUT

### **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	

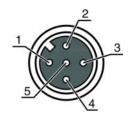
Pin	Pin assignment
1	V+
2	I/O 1
3	GND
4	IO-Link
5	I/O 2
6	RS 485 Tx+
7	RS 485 Tx+
8	FE/SHIELD



Connection 2	
Function	BUS IN BUS OUT
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	5 -pin
Encoding	A-coded



Pin	Pin assignment
1	FE/SHIELD
2	n.c.
3	CAN GND
4	CAN H
5	CAN L



## **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
50119473	CML720i- T05-2000.R-M12	Light curtain transmitter	Operating range: 0.1 3.5 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.

#### **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

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



### 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

## 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
	50118185	K-YCN M12A- M12A-S-PUR	Interconnection cable	Suitable for interface: CANopen Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Connection 2: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 3: Connector, M12, Axial, Male, A-coded, 5 -pin Shielded: Yes Cable length fork 1: 250 mm Cable length fork 2: 350 mm Sheathing material: PUR

## Connection technology - Terminating resistors

Part no.	Designation	Article	Description
50040099	TS 01-5-SA	Terminator plug	Suitable for: DeviceNet, CANopen Connection 1: Connector, M12, Axial, Male, A-coded, 5 -pin Function: Bus termination

## 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
E.	429046	BT-2R1	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

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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.