# **Technical data sheet Light curtain transmitter** Part no.: 50118605 CML730i-T05-2400.A-M12





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## **Technical data**

# Leuze

Device type       Transmitter         Contains       2x BT-NC sliding block         Application       Detection of transparent objects         Object measurement       Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning       Parallel-beam scanning         Operating range       Guaranteed operating range         Operating range, transparent media       0.1 4 m         Operating range, transparent media       0.1 6 m         Measurement field length       2.400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Weasurement data       Winimum object diameter         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Connection         Number of connections       1 Piece(s)	Series	730
Contains       2x BT-NC sliding block         Application       Detection of transparent objects         Object measurement       Object measurement         Special version       Crossed-beam scanning         Diagonal-beam scanning       Diagonal-beam scanning         Operating range       Guaranteed operating range         Operating range imit       0.1 4 m         Operating range limit       0.1 1.75 m         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Short circuit protection         Short circuit protection       Short circuit protected         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protection       Short circuit protected         Transient protection       0 435 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s	Operating principle	Throughbeam principle
Application       Detection of transparent objects Object measurement         Special version       Crossed-beam scanning Diagonal-beam scanning Parallel-beam scanning         Optical data       Detection of transparent media Diagonal-beam scanning         Operating range       Cuaranteed operating range         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 4 m         Detection of transparent media       0.1 4 m         Mumber of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       940 nm         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Readual ripple       0 15 %, From U <sub>B</sub> Open-circu	Device type	Transmitter
Object measurement       Special version       Special version       Crossed-beam scanning Diagonal-beam scanning       Optical data       Operating range     Guaranteed operating range       Operating range     0.1 4 m       Operating range     0.1 4 m       Operating range limit     0.1 4 m       Operating range limit     0.1 4 m       Operating range limit     0.1 6 m       Measurement field length     2,400 mm       Number of beams     480 Piece(s)       Beam spacing     5 mm       Light source     LED, Infrared       LED light wavelength     940 nm       Measurement data     940 nm       Minimum object diameter     10 mm       Electrical data     Protective circuit       Protective circuit     Polarity reversal protection       Short circuit protected     Transient protection       Short circuit protected     Transient protection       Short circuit current     0 15 %, From U <sub>B</sub> Open-circuit current     0	Contains	2x BT-NC sliding block
Special version       Crossed-beam scanning         Diagonal-beam scanning         Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       940 nm         Minimum object diameter       10 mm         Electrical data       Short circuit protection         Protective circuit       Polarity reversal protection         Short circuit protected Transient protection       Short circuit protected Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 450 ms         Connection       Sing Cocle time         Store circuit       5 ms	Application	Detection of transparent objects
Special version       Crossed-beam scanning Diagonal-beam scanning         Optical data       Parallel-beam scanning         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range, transparent media       0.1 4 m         Operating range limit       Typical operating range         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected Transient protection       Short circuit protected Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer 		Object measurement
Diagonal-beam scanning         Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range       0.1 4 m         Operating range limit       0.1 1.75 m         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protected         Transient protection       Short circuit protected         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer         to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Special version	
Parallel-beam scanning         Optical data         Operating range       Guaranteed operating range         Operating range (transparent media       0.1 4 m         Operating range limit       Typical operating range         Operating range limit       0.1 4 m         Operating range limit       0.1 4 m         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Stom s         Connection       Stom s         Connection       1 Piece(s)	Special version	Crossed-beam scanning
Optical data         Operating range       Guaranteed operating range         Operating range, transparent media       0.1 4 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       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Minimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Supply voltage UB       18 30 V, DC         Residual ripple       0 15 %, From UB Open-circuit current         Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of trans mitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)		Diagonal-beam scanning
Operating range       Guaranteed operating range         Operating range, transparent media       0.1 4 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       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection Short circuit protected Transient protection         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of trans mitter and receiver.         Timing       Readiness delay       450 ms         Connection       5 ms         Number of connections       1 Piece(s)		Parallel-beam scanning
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Operating range, transparent media       0.11.75 m         Operating range limit       1175 m         Operating range limit       0.16 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Electrical data       Protective circuit         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit protected       Transient protection         Short circuit protected       0 435 mA, The specified values referer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Connection       5 ms       5 ms         Connection       1 Piece(s)       1 Piece(s)	Operating range	Guaranteed operating range
Operating range limit       Typical operating range         Operating range limit       0.1 6 m         Measurement field length       2,400 mm         Number of beams       480 Piece(s)         Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       10 mm         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected Transient protection         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 trans mitter and receiver.         Timing       Readiness delay       450 ms         Connection       5 ms         Mumber of connections       1 Piece(s)	Operating range	0.1 4 m
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Beam spacing       5 mm         Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Measurement field length	2,400 mm
Light source       LED, Infrared         LED light wavelength       940 nm         Measurement data       Minimum object diameter       10 mm         Electrical data       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         Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay       450 ms         Cycle time       5 ms       5 ms         Connection       1 Piece(s)       1 Piece(s)	Number of beams	480 Piece(s)
LED light wavelength       940 nm         Measurement data       Minimum object diameter       10 mm         Electrical data       10 mm         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Supply voltage U <sub>B</sub> Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       X450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Beam spacing	5 mm
Measurement data         Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Protective circuit       Polarity reversal protected         Transient protected       Transient protection         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.         Timing       Readiness delay       450 ms         Cycle time       5 ms       5 ms         Connection       1 Piece(s)       1 Piece(s)	Light source	LED, Infrared
Minimum object diameter       10 mm         Electrical data       Polarity reversal protection         Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Supply voltage U <sub>B</sub> Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	LED light wavelength	940 nm
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 0 435 mA, The specified values refer to the entire package consisting of trans mitter and receiver. Timing Readiness delay 450 ms Cycle time 5 ms Connection Number of connections 1 Piece(s)	Measurement data	
Protective circuit       Polarity reversal protection         Short circuit protected       Transient protection         Performance data       Image: Supply voltage UB         Supply voltage UB       18 30 V, DC         Residual ripple       0 15 %, From UB         Open-circuit current       0 435 mA, The specified values refert to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Minimum object diameter	10 mm
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       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Electrical data	
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Performance data         Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)		Short circuit protected
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)		Transient protection
Supply voltage U <sub>B</sub> 18 30 V, DC         Residual ripple       0 15 %, From U <sub>B</sub> Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)	Performance data	
Open-circuit current       0 435 mA, The specified values refer to the entire package consisting of transmitter and receiver.         Timing       Readiness delay         Readiness delay       450 ms         Cycle time       5 ms         Connection       1 Piece(s)		18 30 V, DC
to the entire package consisting of transmitter and receiver. Timing Readiness delay 450 ms Cycle time 5 ms Connection Number of connections 1 Piece(s)	Residual ripple	0 15 %, From U <sub>B</sub>
Readiness delay     450 ms       Cycle time     5 ms       Connection     1 Piece(s)	Open-circuit current	0 435 mA, The specified values refer to the entire package consisting of trans mitter and receiver.
Cycle time 5 ms Connection Number of connections 1 Piece(s)	Timing	
Connection Number of connections 1 Piece(s)	Readiness delay	450 ms
Number of connections 1 Piece(s)	Cycle time	5 ms
	Connection	
Plug outlet Axial		
	Number of connections	1 Piece(s)

Connection 1		
Function	Connection to receiver	
Type of connection	Connector	
Thread size	M12	
Туре	Male	
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 2,475 mm
Housing material	Metal
Metal housing	Aluminum
Lens cover material	Plastic
Net weight	2,400 g
Housing color	Silver
Type of fastening	Groove mounting
	Via optional mounting device

#### **Operation and display**

Type of display	LED
Number of LEDs	1 Piece(s)

#### **Environmental data**

Ambient temperature, operation	-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 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	

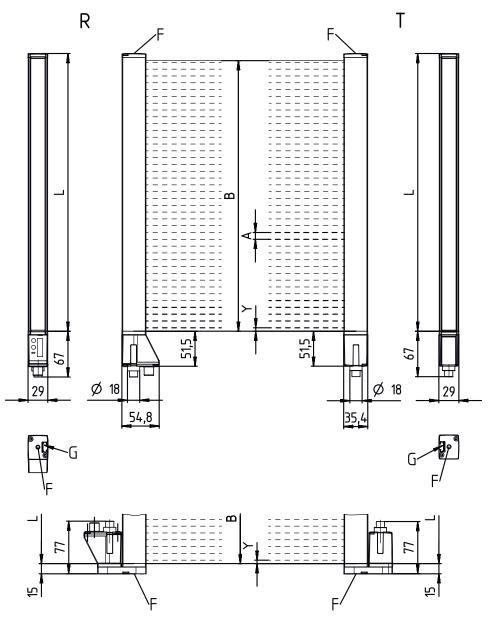
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We reserve the right to make technical changes

## **Dimensioned drawings**

All dimensions in millimeters



- В Measurement field length 2400 mm
- F M6 thread
- G Fastening groove
- Profile length 2408 mm L Т
- Transmitter
- R Receiver
- 2.5 mm Υ



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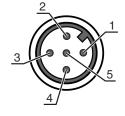
## **Electrical connection**

# Leuze

#### **Connection 1**

Function	Connection to receiver
Type of connection	Connector
Thread size	M12
Туре	Male
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



## **Operation and display**

LED	Display	Meaning
1	Green, continuous light	Continuous mode
	Off	No communication with the receiver / waiting for trigger
	green, flashing in sync with the measurement	Measurement frequency display

#### Suitable receivers

Suitable	Part no.	Designation	Article	Description
	50118684	CML730i-R05- 2400.A/CN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: CANopen Connection: Connector, M12, Axial, 8 -pin
Į	50118847	CML730i-R05- 2400.A/CV-M12	Light curtain receiver	Operating range: 0.1 4.5 m Analog outputs: 2 Piece(s), Voltage, Current Connection: Connector, M12, Axial, 8 -pin
	50123299	CML730i-R05- 2400.A/D3-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: RS 485 Modbus Connection: Connector, M12, Axial, 8 -pin
	50118766	CML730i-R05- 2400.A/L-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: IO-Link Connection: Connector, M12, Axial, 8 -pin

4/7

#### Suitable receivers

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	Part no.	Designation	Article	Description
Į	50123112	CML730i-R05- 2400.A/PB-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFIBUS DP Connection: Connector, M12, Axial, 8 -pin
Į	50131718	CML730i-R05- 2400.A/PN-M12	Light curtain receiver	Operating range: 0.1 4.5 m Interface: PROFINET Connection: Connector, M12, Axial, 8 -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: 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 website at www.leuze.com.

#### Notes

#### Observe intended use!

✤ This product is not a safety sensor and is not intended as personnel protection.

 ${\ensuremath{\,\textcircled{\tiny \ensuremath{\,\Downarrow}}}}$  The product may only be put into operation by competent persons.

 $\ensuremath{^{\ensuremath{\Downarrow}}}$  Only use the product in accordance with its intended use.

	For UL applications:
0	the 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 - 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
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

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#### Accessories

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# Configuration devices

 Part no.	Designation	Article	Description
50121098	SET MD12-US2-IL1.1 + Zub.	Diagnostics set	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
6	☆ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.