Leuze

Technical data sheet Optical data transmission

Part no.: 50134432 DDLS 548i 200.4 L



Technical data

Leuze

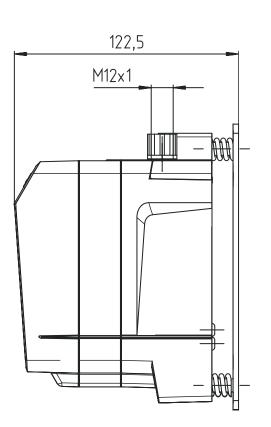
Special version Integrated laser alignment aid Not influenced by reflective surfaces Operation of parallel light axes Remote diagnosis via web server Remote diagnosis via web server Optical data 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1° Electrical data 18 30 V, DC Interface PROFINET slave network device PROFINET slave network device PROFINET slave network device	Basic data				
Special version Integrated laser alignment aid Not influenced by reflective surfaces Operation of parallel light axes Remote diagnosis via web server Optical data Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1° Electrical data Performance data Supply voltage UB 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET, PROFIsafe PROFINET Function Process Transmission speed 100 Mbit/s Connection 1 Connector Type of connections 2 Piece(s) Connection 1 Type Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection No. of pins 5 -pin Encoding A-coded Thread size M12 Type Female No. of pins 4 -pin	Series	DDLS 500			
Not influenced by reflective surfaces Operation of parallel light axes Remote diagnosis via web server Optical data Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1° Electrical data Performance data Supply voltage U _B 18 30 V, DC Interface PROFINET slave network device PROFINET PROFINET, PROFISATE over PROFINET PROFINET PROFINET, PROFISATE over PROFINET PROFINET Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Connection 1 Type of connection Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection No. of pins 5 -pin Encoding A-coded Thread size M12 Type Female No. of pins 5 -pin Encoding A-coded Connection 1 Tope of connection <	Special version				
Operation of parallel light axes Remote diagnosis via web server Optical data Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1 ° Electrical data Image: Supply voltage Ug Performance data Supply voltage Ug Supply voltage Ug 18 30 V, DC Interface PROFINET Slave network device PROFINET/PROFIsafe Type PROFINET, PROFINET, PROFISATE PROFINET Function Process Transmission speed Top of connections 2 Piece(s) Connection 1 Type of connection Connector Designation on device POWER Thread size Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Power Type of connection S -pin Encoding A-coded Connection 2 Type of connection Power No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Power Type of co	Special version	Integrated laser alignment aid			
Remote diagnosis via web server Optical data Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1 ° Electrical data Performance data Supply voltage U _B Supply voltage U _B 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET/PROFIsafe Pype PROFINET, PROFISATE PROFINET Function Function Process Transmission speed 100 Mbit/s Connection 1 Connector Type of connections 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Thread size M12 Type of connection S -pin Encoding A-coded Connection 2 Connector Type of connection Connector Designation on device BUS Thread size M12 Type <th></th> <th>Not influenced by reflective surfaces</th>		Not influenced by reflective surfaces			
Optical data Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1° Electrical data Performance data Supply voltage U _B 18 30 V, DC Interface PROFINET slave network device Transmission protocol PROFINET slave network device PROFINET PROFINET, PROFISafe over PROFINET PROFINET Function Process Transmission speed 100 Mbit/s Connection Number of connections 2 Piece(s) Connection 1 Type of connection Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin		Operation of parallel light axes			
Working range 100 200,000 mm Light source Laser Transmission frequency F4 Opening angle 1° Electrical data Electrical data Performance data Supply voltage U _B 18 30 V, DC Interface PROFINET slave network device PROFINET PROFINET/PROFIsafe Type PROFINET, PROFISE PROFINET Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Connection 1 Type of connection Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connector Designation on device BUS Thread size M12 Type of connection Connector Designation on device BUS Thread size M12 Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin		Remote diagnosis via web server			
Light source Laser Transmission frequency F4 Opening angle 1° Electrical data Performance data Supply voltage U _B 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET, PROFISafe Type PROFINET, PROFISafe over PROFINET PROFINET Function Process Transmission speed 100 Mbit/s Connection Number of connections 2 Piece(s) Connection 1 Type Male No. of pins 5 -pin Encoding A-coded Connector Designation on device BUS Thread size M12 Type female No. of pins 4-pin	Optical data				
Transmission frequency F4 Opening angle 1° Electrical data Performance data Supply voltage UB 18 30 V, DC Interface Transmission protocol PROFINET Function PROFINET, PROFISATE Function Process Transmission speed 100 Mbit/s Connection 1 Type of connections 2 Piece(s) Connection 1 Type of connection Connector Designation on device POWER Thread size M12 Type of connection No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection No. of pins Period connection Segnation on device Type of connection Designation on device <	Working range	100 200,000 mm			
Opening angle 1° Electrical data Performance data Supply voltage U _B 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET, PROFISATE PROFINET Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Number of connections 2 Piece(s) Connection 1 Type Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection BUS Thread size Mule No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Connector 1 Type of connection Type of connection 2 Type of connection Type of connection 1 Type of connection Encoding A-coded Connection 2 Type Type Female No. of pins 4 -pin	Light source	Laser			
Electrical data Ferformance data Supply voltage U _B 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET, PROFISafe Type PROFINET Function Process Transmission speed 100 Mbit/s Connection Number of connection 2 Piece(s) Connection 1 Type of connection Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Transmission frequency	F4			
Performance data Supply voltage U _B 18 30 V, DC Interface Transmission protocol PROFINET slave network device PROFINET/PROFIsafe Type PROFINET, PROFISATE over PROFINET PROFINET Function Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Connection 1 Type of connection Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Connector 4 Type Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Opening angle	1 °			
Supply voltage U _B 18 30 V, DC Interface PROFINET slave network device PROFINET/PROFIsafe Type PROFINET, PROFISafe over PROFINET PROFINET Function Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Connection 1 Type of connection Type of connection Connector Designation on device POWER Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection No. of pins 5 -pin Encoding A-coded Type of connection Connector Designation on device BUS Thread size M12 Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Electrical data				
Interface Interface Interface Iransmission protocol PROFINET slave network device PROFINET/PROFIsafe Type PROFINET Function Process Transmission speed 100 Mbit/s Connection Number of connections 2 Piece(s) Connection 1 Type of connection Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Performance data				
Transmission protocol PROFINET slave network device PROFINET/PROFIsafe Type PROFINET, PROFIsafe over PROFINET PROFINET Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Number of connections 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Connector Type of connection Connector Designation on device BUS Type of connection Connector Designation on device BUS Type of connection Connector Designation on device BUS Type Female No. of pins 4 -pin	Supply voltage U _B	18 30 V, DC			
PROFINET/PROFIsafe Type PROFINET, PROFIsafe over PROFINET PROFINET Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Number of connections 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection Connector Designation on device BUS Type of connection Connector Type of connection Connector Type of connection Connector Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Interface				
Type PROFINET, PROFIsafe over PROFINET PROFINET Process Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Number of connections 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Connector Type of connection Connector Designation on device BUS Type of connection Connector Type Female No. of pins 4 -pin	Transmission protocol	PROFINET slave network device			
PROFINET Function Process Transmission speed 100 Mbit/s Connection 2 Piece(s) Number of connections 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection Connector Designation on device BUS Thread size M12 Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin		PROFINET/PROFIsafe			
FunctionProcessTransmission speed100 Mbit/sConnection2 Piece(s)Number of connections2 Piece(s)Connection 1ConnectorType of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionDesignation on deviceBUSType of connection 2ConnectorType of connection 2Function 2Type of connection 3ConnectorDesignation on deviceBUSThread sizeM12Type for connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Туре	PROFINET, PROFIsafe over PROFINET			
FunctionProcessTransmission speed100 Mbit/sConnection2 Piece(s)Number of connections2 Piece(s)Connection 1ConnectorType of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionDesignation on deviceBUSType of connection 2ConnectorType of connection 2Function 2Type of connection 3ConnectorDesignation on deviceBUSThread sizeM12Type for connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin					
Transmission speed100 Mbit/sConnection2 Piece(s)Number of connections2 Piece(s)Connection 1ConnectorType of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionDesignation on deviceBUSType of connectionConnectorDesignation on deviceBUSType of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin		2			
Connection 2 Piece(s) Connection 1 Connector Type of connection Connector Designation on device POWER Thread size M12 Type Male No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Type of connection Connector Designation on device BUS Thread size M12 Type of connection Connector Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin					
Number of connections2 Piece(s)Connection 1ConnectorType of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2ConnectorType of connectionConnectorDesignation on deviceBUSThread sizeM12Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Iransmission speed	100 Mbit/s			
Connection 1Type of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2ConnectorType of connectionConnectorDesignation on deviceBUSThread sizeM12Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Connection				
Type of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Number of connections	2 Piece(s)			
Type of connectionConnectorDesignation on devicePOWERThread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Connection 1				
Thread sizeM12TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2ConnectorType of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin		Connector			
TypeMaleNo. of pins5 -pinEncodingA-codedConnection 2Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Designation on device	POWER			
No. of pins 5 -pin Encoding A-coded Connection 2 Type of connection Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin	Thread size	M12			
EncodingA-codedConnection 2ConnectorType of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Туре	Male			
Connection 2Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	No. of pins	5 -pin			
Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Encoding	A-coded			
Type of connectionConnectorDesignation on deviceBUSThread sizeM12TypeFemaleNo. of pins4 -pin	Connection 2				
Designation on device BUS Thread size M12 Type Female No. of pins 4 -pin		Connector			
Thread size M12 Type Female No. of pins 4 -pin	51				
Type Female No. of pins 4 -pin	•				
No. of pins 4 -pin	Туре				
	•				

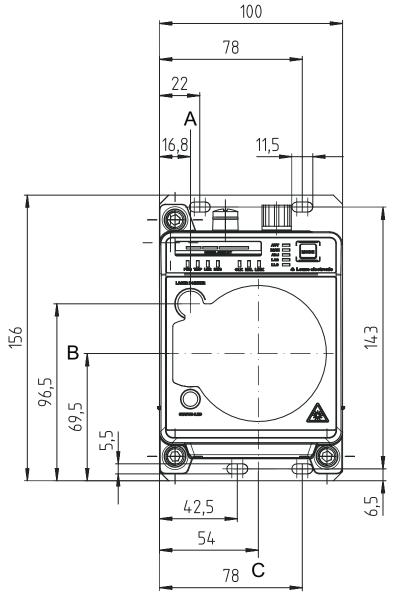
Mechanical data

Dimension (W x H x L)	100 mm x 156 mm x 99.5 mm
Housing material	Metal
Net weight	1,422 g
Operation and display	
Type of display	Bar graph
	LED
Type of configuration	GSDML file
	Software
	Via web browser
Environmental data	
	-5 50 °C
Ambient temperature, operation	-35 70 °C
Ambient temperature, storage	-33 70 C
Certifications	
Degree of protection	IP 65
Approvals	c UL US
Test procedure for EMC in accordance	EN 1000-6-4
with standard	EN 61000-6-2
Test procedure for noise in accordance with standard	EN 60068-2-64
Test procedure for oscillation in accordance with standard	EN 60068-2-6
Test procedure for shock in accordance with standard	EN 60068-2-27
Classification	
Customs tariff number	84718000
ECLASS 5.1.4	19039001
ECLASS 8.0	19179090
ECLASS 9.0	19179090
ECLASS 10.0	19170506
ECLASS 11.0	19170506
ECLASS 12.0	19170506
ECLASS 13.0	19170506
ECLASS 14.0	19170506
ECLASS 15.0	19170506
ETIM 5.0	EC000515
ETIM 6.0	EC000515
ETIM 7.0	EC000515
ETIM 8.0	EC000515
ETIM 9.0	EC000515
ETIM 10.0	EC000515

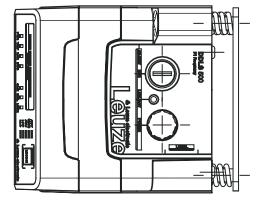
Dimensioned drawings

All dimensions in millimeters





Leuze



A Center axis of transmitter and alignment laser

B Center axis of transmitter and receiver

C Center axis of receiver

Electrical connection

Connection 1

Connection 2

Thread size

Туре

4

Material

Type of connection

Type of connection	Connector
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

POWER

Pin Pin assignment

1	VIN	
2	IO1	
3	GND	
4	102	
5	FE/SHIELD	

BUS

M12

Female

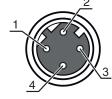
Metal

Connector

<u>3</u> <u>4</u>

Еф

No. of pin	IS	4 -pin	
Encoding	l	D-coded	
Pin	Pin assignment		
Pin	_		
Pin 1	Pin assignment TD+		
	_		



Operation and display

RD-

LE	C	Display	Meaning
1	AUT	Off	Operating mode not active
		Green, continuous light	Operating mode "Automatic"
2	MAN	Off	Operating mode not active
		Green, continuous light	Operating mode "Manual"
3	ADJ	Off	Operating mode not active
		Green, continuous light	Operating mode "Adjust"
4	LAS	Off	Operating mode not active
		Green, continuous light	Operating mode "Alignment-laser mounting support"
5	LLC	Off	Operating mode not active
		Green, continuous light	LLC without interruption
		Red, continuous light	LLC interrupted at least once
6	PWR	Off	No supply voltage
		Green, flashing	Device ok, initialization phase
		Green, continuous light	Data transmission active
		Red, flashing	Data transmission interrupted
		Red, continuous light	Device error
7	TMP	Off	Operating temperature OK
		Orange, continuous light	Operating temperature critical
		Red, continuous light	Operating temperature exceeded or not met
8	LSR	Off	With function reserve
		Orange, continuous light	Device OK, warning set
9	BUS	Off	No supply voltage



Operation and display

LED	Display	Meaning
9 BUS	Green, flashing	Device waiting for communication to be re-established, no data exchange
	Green, continuous light	Communication with IO-Controller established, data exchange active
	Orange, flashing	PROFINET wave function activated, the PWR and BUS LEDs flash in sync in orange
	Red, flashing	Parameterization or configuration failed, no data exchange
	Red, continuous light	Bus error, no communication established to the IO controller
10 OLK	Off	Fault
	Green, continuous light	No data transmission
	Orange, continuous light	Data transmission active
11 ERL	Off	Link OK
	Orange, continuous light	Missing link (Ethernet cable connection) on the second device
	Red, continuous light	No cable-connected link to the connected device
12 LINK	Off	No cable-connected link to the connected device
	Green, continuous light	Link OK
	Orange, continuous light	Data transmission active
13 SIGNAL QUALITY	2 red, 2 orange and 4 green	Received signal level

Suitable transmitters

 Part no.	Designation	Article	Description
50134431	DDLS 548i 200.3 L	Optical data transmission	Special version: Integrated laser alignment aid, Not influenced by reflective surfaces, Operation of parallel light axes, Remote diagnosis via web server Working range: 100 200.000 mm Transmission frequency: F3 Interface: PROFINET Connection: Connector, M12

Part number code

Part designation: DDLS 5XXX YYY.Z A B CC

DDLS	Optical transceiver for digital data transmission
5XXX	Series 508i: without integrated web server for remote diagnostics 508i: with integrated web server for remote diagnostics 538: without integrated web server for remote diagnostics (EtherCAT) 548i: with integrated web server for remote diagnostics
YYY	Range for data transmission in m
Z	Frequency of the transmitter 0: Frequency F0 1: Frequency F1 2: Frequency F2 3: Frequency F3 4: Frequency F4
A	Option L: integrated laser alignment aid (for transmitter/receiver) n/a: standard

Part number code



В	Special equipment H: with heating n/a: no special equipment
сс	Special equipment W: transmission optics with larger opening angle (on request) n/a: no special equipment
	Note
A	♣ A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes

Observe intended use!
to 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	appl	licati	ons
--	-----	----	------	--------	-----

₺ For UL applications, use is only permitted in Class 2 circuits in accordance with the NEC (National Electric Code).

ATTENTION! INVISIBLE LASER RADIATION – CLASS 1M LASER PRODUCT
Do not expose users of telescopic optics! The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of laser class 1M as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to Laser Notice No. 50 from June 24, 2007.
b Do not expose users of telescopic optics! The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of laser class 1M as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to Laser Notice No. 50 from June 24, 2007.
S Looking into the beam path for extended periods using telescope optics may damage the eye's retina. Never look using telescope optics into the laser beam or in the direction of reflecting beams.
 CAUTION! The use of operating and adjusting devices other than those specified here or the carrying out of differing procedures may lead to dangerous exposure to radiation! The use of optical instruments or devices (e.g., magnifying glasses, binoculars) in combination with the device increases the danger of eye damage.
to Observe the applicable statutory and local laser protection regulations.
 The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Notes

	ATTENTION! LASER RADIATION – CLASS 1 LASER PRODUCT (alignment laser)
	The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of laser class 1 as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to Laser Notice No. 50 from June 24, 2007.
*	The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of laser class 1 as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to Laser Notice No. 50 from June 24, 2007.
	b Observe the applicable statutory and local laser protection regulations.
	 The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Accessories

Connection technology - Connection cables

	Part no.	Designation	Article	Description
W/	50132079	KD U-M12-5A-V1- 050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
V	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50137078	KSS ET-M12-4A- M12-4A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	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

Leuze

Accessories

Leuze

Connection technology - Connectors

	Part no.	Designation	Article	Description
	50020501	KD 095-5A	Connector	Connection: Connector, M12, Axial, Female, A-coded, 5 -pin
Contraction of the second	50112155	S-M12A-ET	Connector	Suitable for interface: Ethernet Connection: Connector, M12, Axial, Male, D-coded, 4 -pin

Services

	Part no.	Designation	Article	Description
y; U	S981001	CS10-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses.
	S981005	CS10-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses.

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