



the sensor people





Part no.: 50134422 DDLS 548i 40.4 H Optical data transmission







Figure can vary

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- · Dimensioned drawings
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Technical data

Series DDLS 500 Special design Special design Net influenced by reflective surfaces Remote maintenance via web server Objects data Working range 100 40,000 mm Light source Laser Usable opening angle, transmitter 1° Electrical data Performance data Supply voltage Us 18 30 V, DC Interface Type PROFINET Profinet Transmission speed 100 Mbl/s Connection 1 Type of connection Connector Designation on device POWER Thread size M12 Type Male No. of pins 5-pin Encoding D-coded No. of pins 4-pin Encoding D-coded Mechanical data Mechanical data Mechanical data Dimension (W x H x L) 100 mm x 156 mm x 99.5 mm Housing material Net weight Net weight Type of display Type of display Fire of display Type of display Ber graph Fire of display Fire of display Ber graph Fire of display Fire				
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Performance data	Usable opening angle, transmitter	1 °		
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Net weight 1,185 g **Operation and display** Type of display **Bar graph**				
Operation and display Type of display Bar graph				
Type of display Bar graph	Net weight	1,185 g		
Type of display Bar graph				
Type of display Bar graph				
I FI J	Type of display	Bar graph LED		



Type of configuration	GSDML file Software Via web browser
	The most shoulder
Environmental data	
Ambient temperature, operation	-35 50 °C
Ambient temperature, storage	-35 70 °C
Certifications	
Degree of protection	IP 65
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 1000-6-4 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	
eCl@ss 8.0	27100990

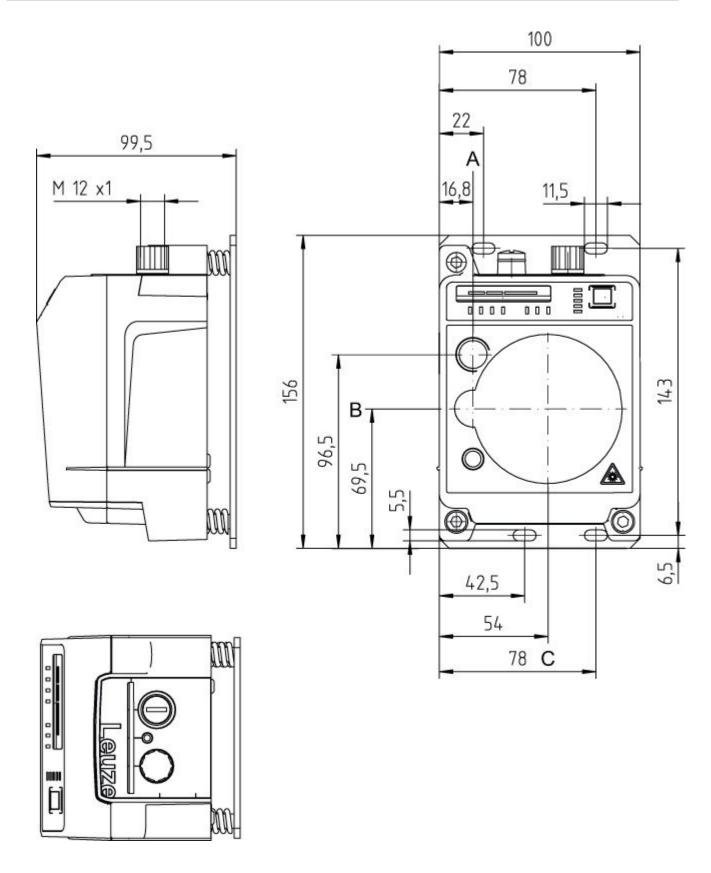
27100990

Dimensioned drawings

All dimensions in millimeters

eCl@ss 9.0





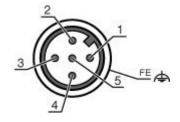
- A Middleaxis Transmitter
- B Center axis of transmitter and receiver
- C Center axis of receiver



Electrical connection

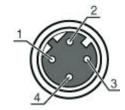
Connection 1	POWER
Type of connection	Connector
Function	Signal OUT Voltage supply Signal IN
Thread size	M12
Туре	Male
Material	Metal
No. of pins	5 -pin
Encoding	A-coded

Pin	Pin assignment	
1	VIN	
2	101	
3	GND	
4	102	
5	FE/SHIELD	



Connection 2	BUS
Type of connection	Connector
Function	BUS IN
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded

Pin	Pin assignment	
1	TD+	
2	RD+	
3	TD-	
4	RD-	



Operation and display

LEDs

L	ED	Display	Meaning	
1	AUT	Off	Operating mode not active	
	Green, continuous light		Operating mode 'Automatic'	
2	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		Off	Operating mode not active	
	Green, continuous light		Operating mode 'Alignment-laser mounting support'	



LI	ED	Display	Meaning
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
		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

1	Part no.	Designation	Article	Description
50	0134421	DDLS 548i 40.3 H	transmission	Working range: 100 40,000 mm Interface: PROFINET Connection: Connector, M12 Special design: Operation of parallel light axes, Not influenced by reflective surfaces, Heating, Remote maintenance via web server

Part number code

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

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 548i: with integrated web server for remote diagnostics	
YYY	Range for data transmission in m	

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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)
В	Special equipment: H: with heating
С	Special equipment: W: transmission optics with larger opening angle (on request)

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).

WARNING! INVISIBLE LASER RADIATION - LASER CLASS 1M

- Never observe directly using telescope 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.
- 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.
- 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
50132077	KD U-M12-5A- V1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC

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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
50132080	KD U-M12-5A- V1-100	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
50135073	KS ET-M12-4A- P7-020	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
50135074	KS ET-M12-4A- P7-050	Connection cable	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
50135075	KS ET-M12-4A- P7-100	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
50135076	KS ET-M12-4A- P7-150	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 15,000 mm Sheathing material: PUR
50135077	KS ET-M12-4A- P7-300	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 30,000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50137077	KSS ET-M12-4A- M12-4A-P7-020	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: 1,000 mm Sheathing material: PUR
	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: 1,000 mm Sheathing material: PUR



	Part no.	Designation	Article	Description
	50137079	KSS ET-M12-4A- M12-4A-P7-100	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: 10,000 mm Sheathing material: PUR
	50137080	KSS ET-M12-4A- M12-4A-P7-150	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: 15,000 mm Sheathing material: PUR
	50135080	KSS ET-M12-4A- RJ45-A-P7-020	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 2,000 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
	50135082	KSS ET-M12-4A- RJ45-A-P7-100	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 10,000 mm Sheathing material: PUR
	50135083	KSS ET-M12-4A- RJ45-A-P7-150	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 15,000 mm Sheathing material: PUR
	50135084	KSS ET-M12-4A- RJ45-A-P7-300	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 30,000 mm Sheathing material: PUR

Connection technology - Connectors

	Part no.	Designation	Article	Description
	50108991	D-ET1	Connector	Suitable for interface: Ethernet Connection: RJ45
•	50020501	KD 095-5A	Connector	Connection: Connector, M12, Axial, Female, A-coded, 5 -pin



Part no.	Designation	Article	Description
50112155	S-M12A-ET	Connector	Suitable for interface: Ethernet Connection: Connector, M12, Axial, Male, D-coded, 4 -pin

Connection technology - Adapters

Part no.	Designation	Article	Description
50109832	KDS ET-M12 / RJ45 W-4P	Adapter	Suitable for: Ethernet Number of connections: 2 Piece(s) Connection 1: Connector, M12, Angled, Female, D-coded, 4 -pin Connection 2: RJ45

Mounting technology - Other

Part no.	Designation	Article	Description
50126757	BTX 0500 M	Adapter plate	Design of mounting device: Adapter plate Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Material: Metal

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.

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