SMART SENSOR BUSINESS

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Part no.: 50134397 DDLS 508i 40.3 H Optical data transmission



Figure can vary

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- · Dimensioned drawings
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Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

Technical data

Series DDLS 500 Special design Special design Special design Control of parallel light axes Heating Remote maintenance via web server Nati influenced by reflective surfaces Control of the server Transmission spect Connection C	Decis data	
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Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

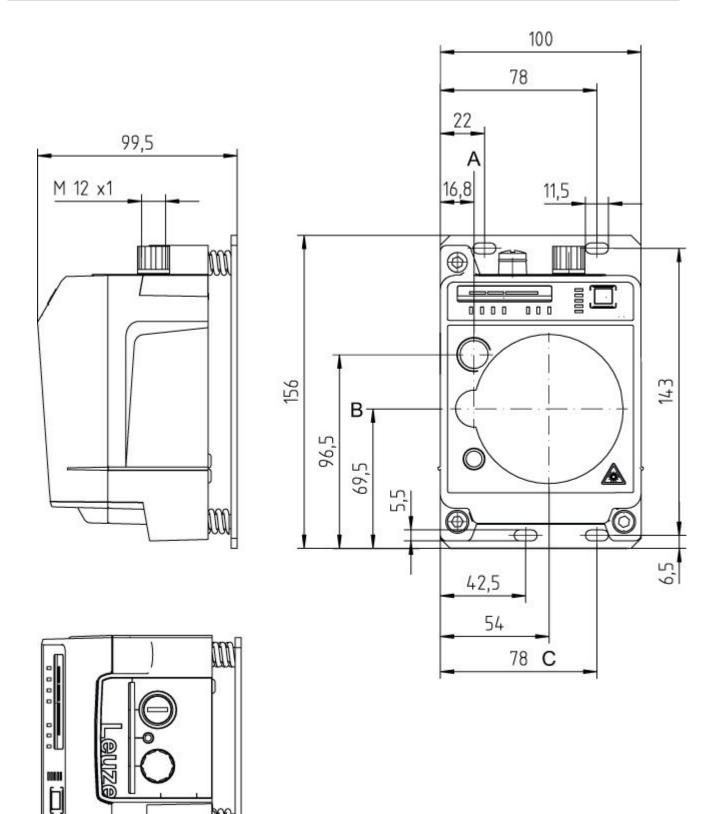
Operation and display		
Type of display	LED Bar graph	
Type of configuration	Software Via web browser	
Environmental data		
Ambient temperature, operation	-35 50 °C	
Ambient temperature, storage	-35 70 °C	
Certifications		
Degree of protection	IP 65	
Certifications	c UL US	
Test procedure for EMC in accordance with standard	EN 61000-6-2 EN 1000-6-4	-
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
eCl@ss 9.0	27100990

Dimensioned drawings

All dimensions in millimeters

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A Middleaxis Transmitter

B Center axis of transmitter and receiver

C Center axis of receiver

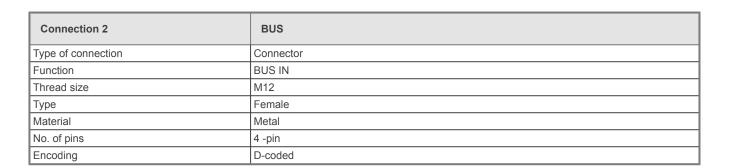
M

Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

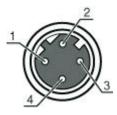
Electrical connection

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

Pin	Pin assignment
1	VIN
2	I01
3	GND
4	102
5	FE/SHIELD



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



FE A

Operation and display

LEDs

LI	ED	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'

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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	not active for the DDLS 508i
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 receivers

Part no.	Designation	Article	Description
50134398	DDLS 508i 40.4 H	transmission	Working range: 100 40,000 mm Interface: Ethernet Connection: Connector, M12 Special design: Heating, Operation of parallel light axes, Not influenced by reflective surfaces, 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
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)

Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

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

Notes

Ok	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
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

Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

Part no.	Designation	Article	Description
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
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

Part no.: 50134397 – DDLS 508i 40.3 H – Optical data transmission

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

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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	t no. Designation	Article	Description
50126	6757 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.