



Part no.: 50101882
ODSL 96K/66-2300-S12
Optical distance sensor



Figure can vary

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Technical data

Basic data	
Series	96
Type of scanning system	Against object

Optical data	
Light source	Laser, Red
Laser class	2
Light spot size	3 mm x 8 mm

Measurement data	
Measurement range	150 ... 2.300 mm
Geometric resolution	1.0 ... 5.0 mm
Measuring accuracy	3 %
Reference value, accuracy of measurement	Measurement distance
Repeatability	2 %
Reference value repeatability	Measurement distance
Measurement time	2 ... 7 ms
Referencing	No
Black/white behavior	1 %

Electrical data	
Performance data	
Supply voltage	10 ... 30 V, DC
Outputs	
Number of digital switching outputs	2 Piece(s)
Switching outputs	
Switching output 1	
Switching element	Transistor, Push-pull
Switching output 2	
Switching element	Transistor, Push-pull

Connection	
Connection 1	
Type of connection	Connector
Thread size	M12
Material	Plastic
No. of pins	5 -pin

Mechanical data	
Width	30 mm x 90 mm x 70 mm
Housing material	Plastic, PC
Lens cover material	Plastic
Net weight	140 g

Operation and display	
Type of configuration	Switch
Operational controls	Teach button

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Environmental data

Ambient temperature, operation	-20 ... 50 °C
Ambient temperature, storage	-30 ... 70 °C

Certifications

Degree of protection	IP 67
Protection class	II
Standards applied	IEC 60947-5-2

Classification

eCl@ss 8.0	27270801
eCl@ss 9.0	27270801
ETIM 5.0	EC001825

Electrical connection

Connection 1	
Type of connection	Connector
Function	Signal OUT
Thread size	M12
Type	Male
Material	Plastic
No. of pins	5 -pin
Encoding	


Operation and display

LEDs





LED	Display	Meaning
1		
2		

Accessories




Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50104559	K-D M12A-5P-10m- PVC	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

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	Part no.	Designation	Article	Description
	50104555	K-D M12A-5P-2m-PVC	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
	50104557	K-D M12A-5P-5m-PVC	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
	50104560	K-D M12W-5P-10m-PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 10,000 mm Sheathing material: PVC
	50104556	K-D M12W-5P-2m-PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 2,000 mm Sheathing material: PVC
	50104558	K-D M12W-5P-5m-PVC	Connection cable	Connection 1: Connector, M12, Angled, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Mounting technology - Mounting brackets

	Part no.	Designation	Article	Description
	50025570	BT 96	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
	50080614	BT 96.1	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal
	50032319	BT 96.4	Mounting device	Design of mounting device: Angle, L-shape Mounting bracket, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal

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Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
	50082084	BT 450.1-96	Mounting device	Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Adjustable Material: Metal
	50104897	BT 450.3-96	Mounting device	Design of mounting device: Mounting system Mounting bracket, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Turning, 360°, Adjustable Material: Metal
	50026204	UMS 96	Mounting system	Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Type of mounting device: Turning, 360°, Adjustable Material: Metal
	50080334	UMS 96-95	Mounting system	Design of mounting device: Mounting system Mounting bracket, at system: For 10 mm rod, For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Type of mounting device: Turning, 360°, Adjustable Material: Metal