SMART SENSOR BUSINESS

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Part no.: 66501401 MLD500-XT1/A Single beam safety device transmitter



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Part no.: 66501401 – MLD500-XT1/A – Single beam safety device transmitter

Technical data

B 1 1 /	
Basic data	N/L D 500
Series	MLD 500
Functions	
Functions	Range reduction
Integrated laser alignment aid	No
Characteristic parameters	
Туре	4, IEC/EN 61496
SIL	3, IEC 61508
SILCL	3, IEC/EN 62061
MTTFd	204 years, EN ISO 13849-1
Mission time T _M	20 years, EN ISO 13849-1
Protective field data	
Operating range	20 100 m
Ontional data	
Optical data Light source	LED, Infrared
LED light wavelength	850 nm
	Pulsed
Transmitted-signal shape	
LED group	Exempt group in acc. with EN 62471:2008
Electrical data	
Performance data	
Supply voltage UB	26.5 31.6 V
Current consumption from AS-i circuit	50 mA
Interface	
Туре	AS-Interface Safety at Work
AS-i	
Function	Process
AS-i profile	S-7.B.1
Slave address	131 programmable, default=0
Cycle time acc. to AS-i specifications	Max. 5 ms
Connection	
Number of connections	1 Piece(s)
Connection 1	
Type of connection	Connector
Function	Machine interface
Thread size	M12
Material	Metal
No. of pins	5 -pin
· ·	
Mechanical data	
Design	Cubic

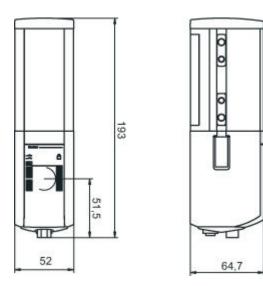
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52 mm x 193 mm x 64.7 mm		
Metal, Aluminum		
Plastic / PMMA		
Diecast zinc		
600 g		
Yellow, RAL 1021		
Swivel mount Groove mounting		
LED		
1 Piece(s)		
-30 55 °C		
-40 75 °C		
0 95 %		
IP 67		
TÜV Süd c CSA US c TÜV NRTL US		
US 7,741,595 B US 6,418,546 B		
27272701		
2/2/2/01		
27272701 EC001831		

Dimensioned drawings

All dimensions in millimeters

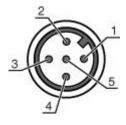
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Electrical connection

Connection 1		
Type of connection	Connector	
Function	Machine interface	
Thread size	M12	
Туре	Male	
Material	Metal	
No. of pins	5 -pin	
Encoding	A-coded	

Pin	Pin assignment	Conductor color
1	AS-i+	Brown
2	n.c.	White
3	AS-i-	Blue
4	n.c.	Black
5	n.c.	Gray



Operation and display

LEDs

LEDs per light axis	Meaning
Green, continuous light	Transmitted beam active
Off	Transmitted beam not active

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Suitable receivers

	Part no.	Designation	Article	Description
Annual Rive	66533401	MLD510-XR1/A	Single beam safety device receiver	Response time: 30 ms Type of interface: AS-Interface Safety at Work Connection: Connector, M12, Metal, 5 -pin
* title anno	66533402	MLD510-XR1E/A	Single beam safety device receiver	Response time: 30 ms Type of interface: AS-Interface Safety at Work Connection: Connector, M12, Metal, 5 -pin Special design: Connection socket for external muting indicator

Part number code

Part designation: MLDxyy-zab/t

MLD	Multiple light beam safety device
х	Series: 3: MLD 300 5: MLD 500
уу	Function classes: 00: Transmitter 10: automatic restart 12: external testing 20: EDM/RES 30: muting 35: timing controlled 4-sensor muting
Z	Device type: T: transmitter R: receiver RT: transceiver xT: transmitter with high range xR: receiver for high range
а	Number of beams
b	Option: L: integrated laser alignment aid (for transmitter/receiver) M: integrated status indicator (MLD 320, MLD 520) or integrated status and muting indicator (MLD 330, MLD 335, MLD 510/A, MLD 530, MLD 535) E: connection socket for external muting indicator (AS-i models only)
/t	Safety-related switching outputs (OSSDs), connection technology: -: transistor output, M12 plug A: integrated AS-i interface, M12 plug, (safety bus system)

Accessories

Mounting technology - Swivel mounts

Part no.	Designation	Article	Description
560340	BT-SET-240BC	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal

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	Part no.	Designation	Article	Description
	540350	BT-SET-240BC-E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal, Plastic
	540352	BT-SET-240BCS- E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Shock absorber, Turning, 240° Material: Metal, Plastic Shock absorber: Yes
	540351	BT-SET-240CC-E	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240° Material: Metal, Plastic
L	560343	BT-SET-240CCS	Mounting bracket set	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable Type of mounting device: Turning, 240°, Shock absorber Material: Metal Shock absorber: Yes

Mounting technology - Other

	Part no.	Designation	Article	Description
E.E.	424417	BT-2P40	Mounting bracket set	Contains: BT-P40 clamp bracket, 2x Design of mounting device: Mounting clamp Fastening, at system: Groove mounting Mounting bracket, at device: Groove mounting Type of mounting device: Clampable Material: Metal
And	424422	BT-2SB10	Mounting bracket set	Contains: 2x BT-SB10 Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, On the lateral C- groove Type of mounting device: Swiveling Swivel range: -8 8 ° Material: Metal
	424423	BT-2SB10-S	Mounting bracket set	Contains: 2x BT-SB10-S Design of mounting device: Mounting clamp Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, On the lateral C- groove Swivel range: -8 8 ° Material: Metal Shock absorber: Yes

Services

	Part no.	Designation	Article	Description
A LAND	S981050	CS40-I-140	Safety inspection "Safety light barriers"	Details: Checking of a safety light barrier application in accordance with current standards and guidelines. Inclusion of the device and machine data in a database, production of a test log per application. Conditions: It must be possible to stop the machine, support provided by customer's employees and access to the machine for Leuze employees must be ensured. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

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	Part no.	Designation	Article	Description
(@	S981046	CS40-S-140	Start-up support	Details: For safety devices including stopping time measurement and initial inspection. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: Max. 2 h., no mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.