

Electronic Display MA501

The electronic display MA501 is a novel and multi-functional axes display with a DOT matrix display and a hard-wired sensor for use in combination with the magnetic strip MB500 or magnetic rings of the MR500 series. For transfer of position data and status messages, it can be provided with an interface with RS485 specification as an option, which makes it particularly suitable for use on manually adjustable axes with target-value default and acknowledgement of actual value.



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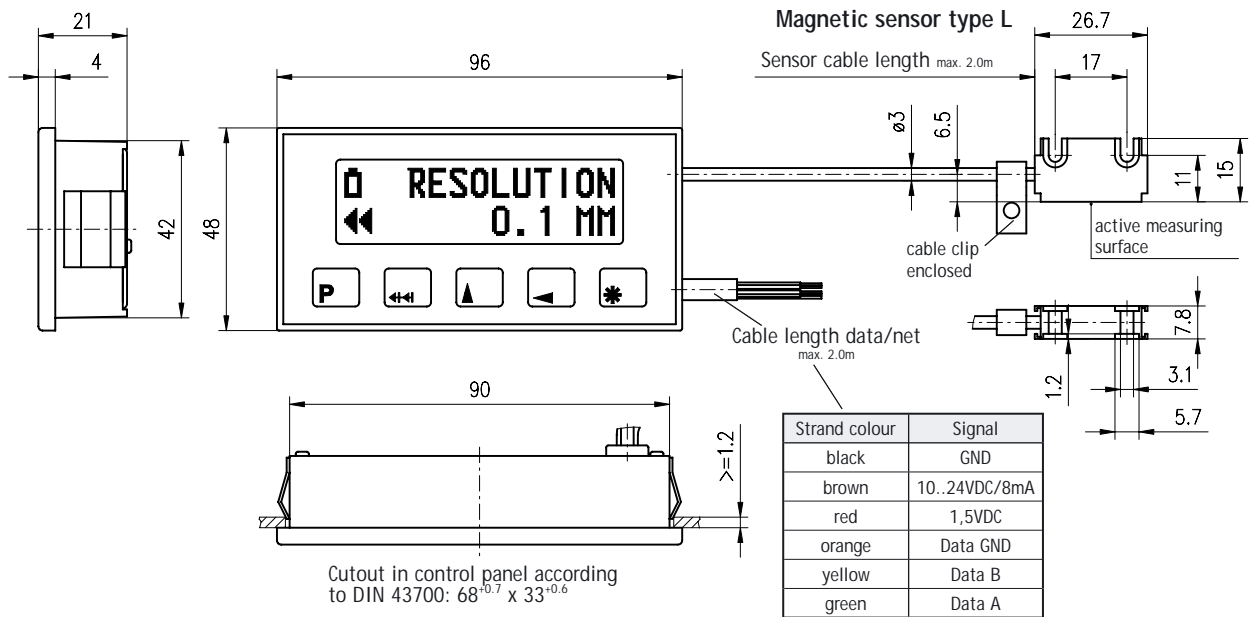
Features:

- freely programmable, high-resolution DOT matrix display
- backup function, thus quasi-absolute, data logging also with currentless adjustment
- RS485 interface (option)
- display accuracy 10µm
- customer-specific versions

Feature	Order text	Additional information
Design	EG10 mount type	standard
Operating voltage	4 B 24VDC ±20%	
Magnetic sensor	L C rectangle with elongated hole	standard
Sensor cable length	... D in meter	available up to max. 2.0m
Cabel length data/net	... E in meter	available up to max. 2.0m
Interface/protocol	S3/00 F RS485/standard S3/06 RS485/SIKONETZ-3 XX/XX without	
Software	S G	standard
Front foil	SF-82990 H	standard
Battery holder	MB I with OB without	enclosed

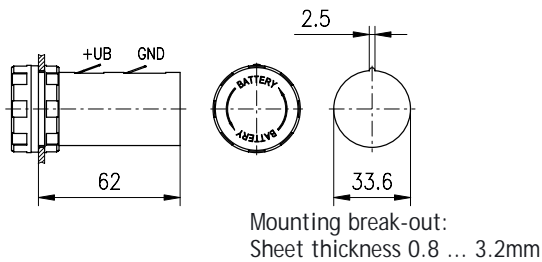
Your ordering: MA501 - [A] - [B] - [C] - [D] - [E] - [F] - [G] - [H] - [I]

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Battery holder:

Power supply 1.5Volt; holder for 1 baby/R14 battery (battery not included in the delivery)



Technical data

Technical data	Additional information
Mechanical data:	
Type of protection	IP54 from the front side; IP67 sensor
Operating temperature	0°C ... +70°C
Storage temperature	-30°C ... +80°C
Humidity	max. 95% rF rel. condensation not permitted
Vibration resistance (50Hz ... 2000Hz)	<200m/s ² DIN IEC 68-2-6
Shock resistance (11ms)	<300m/s ² DIN IEC 68-2-27
Housing	plastic (transparent)
Operator controls	5 key, membrane keyboard
Weight	ca. 70g
Electrical data:	
Power supply	24VDC (10 ... 30V) polarity protection
Power supply backup	1.5VDC (1,2 ... 1,6V)
Display/display range	DOT-Matrix-Display -999 999 ... +999 999
Power consumption	8mA @ 24VDC active, <0,1mA @ 1.5VDC active measuring system display off
Interface	RS485 (LAN Interface)
Protection class	3 acco. to IEC 61000
Test mark	CE
System data, resolution and accuracy:	
Resolution	max. 10µm
Suitable magnetic tape/ring	MB500/MR500
Sensor/magnetic strip gap	max. 2mm
System accuracy	±(0,1 + 0,01 x L) L in m with magnetic strip MB500 at T ₀ =20°C
Repeat accuracy	±1 increment
Travel speed	max. 5m/s