

External Absolute Positioning Sensor MSA501- with Magnetic Scale MBA501

MSA501 is an absolute and incremental magnetic sensor.

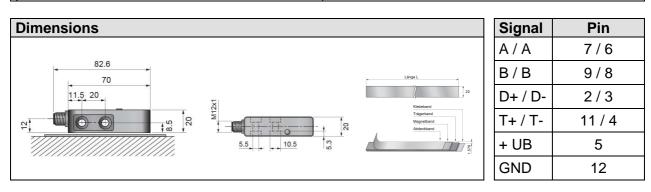
A magnetic strip MBA501 serves as a scale embodiment, which has a magnetic absolute and incremental track. A sensor head contactlessly scans the magnetic strip and delivers an absolute SSI signal, as well as two digitally driven, RS422 compatible output signals.



MSA501 & MBA501 Positioning Measurement System

- repeating accuracy +/- 5 μm
- system linearity +/- 50 μm
- robust system

Туре	MSA501
Operating Data	
resolution absolute / incremental [µm]	5 / 1
repeating accuracy [µm]	+/- 5
linearity of the system [µm]	+/- 50
distance sensor head to scale surface [mm]	< 1,3
max. pitch and jaw of sensor head [°]	< 1
max. speed [m/s]	5,0
status display	LED's
supply voltage + UB [VDC]	4,5 to 30,0
current consuption [mA]	< 300
output circuit SSI	RS485
output circuit incremental	RS422 line driver
cable length with special cable	max. 10 m
housing of sensor head	metal
operating temperature [°C]	-20 to +70
storage temperature [°C]	-30 to +80
humidity [%]	< 100, with condensing
protection class	IP67



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External Positioning Sensor MSA501 Variations, Options & Accessories

The MSA501 is available in the following variations and with different accessories . See the following chart.

Туре	Item No.
Sensors	
MSA501	
5 µm repeating accuracy,	0292048
max. speed 5,0 m/s,	0292046
round connector 12-pin	
Ready-to-use Cables	
MSA501-R12/D15 sensor cable for cable chain	
Cable Adaptors	
MSA501-D15/D15/D9 Y-adaptor	0292049

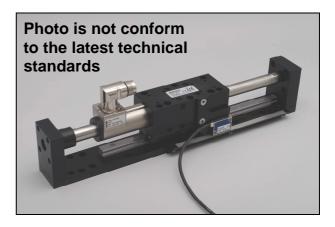


The positioning controllers from series A11XX, B11XX and E11XX are **NOT SUITABLE** for use with the absolute sensor MSA501!

JUNG ANTRIEBSTECHNIK U. AUTOMATION GMBH

HighDynamic® HM01 Modules & HA01 Guides with Adaptor AD22, External Absolute Positioning Sensor MSA501 & Scale

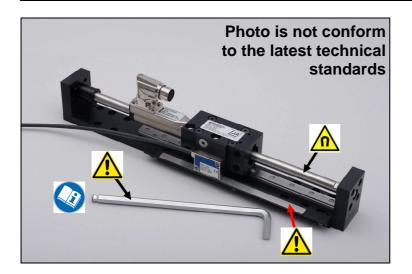




When ordering a completley mounted system (see photo above), the sensor head will be mounted by us. A continuos test-run is included. After dismantling and before assembly, compliance with the mechanical specifications is mandatory - see page 1 of 3.



During assembly work it is imperative to pay attention and make sure that **no tools or workpieces made of steel ever come in contact with the magnetic slider of the linear motor and the magnetic scale.** The magnetic pitch of the magnetic scale is destroyed by strong magnetic fields.



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