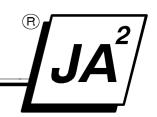
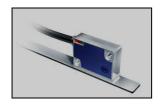
### JUNG ANTRIEBSTECHNIK U. AUTOMATION GMBH



## External Incremental Positioning Sensor MSK1000 with Magnetic Scale MB100

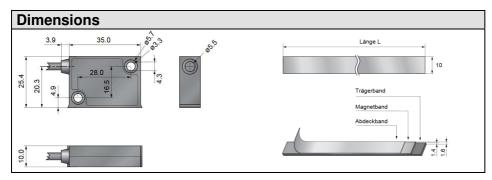
MSK1000 is an incremental magnetic positioning sensor. A magnetic strip serves as a scale embodiment, which has a magnetic pitch of 1 mm. A sensor head contactlessly scans the magnetic strip, interpolates and has an output which is RS422 compatible, two digitally driven output signals are avaiable.



#### MSK1000 & MB100 Positioning Measurement System

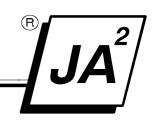
- repeating accuracy +/- 1 μm
- system linearity +/- 10 μm
- robust system

Туре	MSK1000	
Operating Data		
pitch of scale [mm]	1	
period of output signals [µm]	4 (8 see options)	
repeating accuracy [µm]	+/- 1 (+/- 2 see options)	
linearity of the system [µm]	+/- 10	
distance sensor head to scale surface [mm]	0,1 to 0,4	
max. pitch and jaw of sensor head [°]	<1	
max. speed [m/s]	3,2 (6,4 see options)	
status display	LED's	
supply voltage + UB [VDC]	4,75 to 6,0	
current consuption [mA]	< 25	
output circuit	RS422 line driver	
sensor cable	PUR, Ø 5 mm, for cable chain applications	
cable length and connector	depends on order	
hausing of sensor head	metal	
operating temperature[°C]	-10 to +70	
storage temperature [°C]	-30 to +80	
humidity [%]	< 100, with condensing	
protection class	IP67	



Signal	Cable Color
Α	red
/ <b>A</b>	yellow
В	orange
/B	green
+ UB	brown
GND	black

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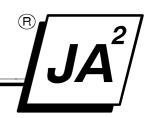


## **External Positioning Sensor MSK1000 Variations, Options & Accessories**

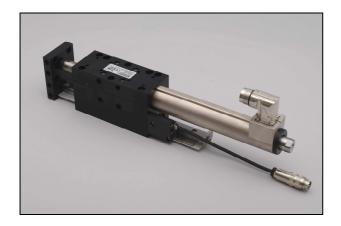
The MSK1000 is available in different variations and with various accessories. See the following chart.

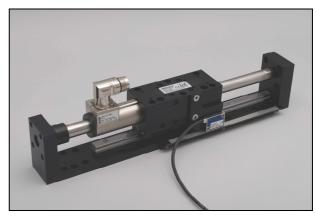
Туре	Item No.
Sensors	
MSK1000	
1 μm resolution (1/4 of signal period),	0291397
max. speed 3,2 m/s,	0231337
2 m cable available for cable chain, SubD-9	
MSK1000	
1 μm resolution (1/4 of signal period),	0290802
max. speed 3,2 m/s,	0200002
0,2 m cable for cable chain, round connector R7	
MSK1000	
1 μm resolution (1/4 of signal period),	0291253
max. speed 3,2 m/s,	0201200
2 m cable for cable chain, round connector R7	
MSK1000	
2 μm resolution (1/4 of signal period),	0290929
max. speed 6,4 m/s,	3_33_3
0,2 m cable for cable chain, round connector R7	
MSK1000	
2 μm resolution (1/4 of signal period),	0291254
max. speed 6,4 m/s,	
2 m cable for cable chain, round connector R7	
Ready-to-use Cables	
MSK1000-R7/D15 extention cable, for cable chains	
MSK1000-R7/D9 extention cable, for cable chains	
MSK1000-D9/D9 extention cable, for cable chains	
MSK1000-D9/D15 extention cable, for cable chains	
Cable Adaptors	
MSK1000-D15/D9/D9 Y-adaptor	0291250
MSK1000-D9/D9/D9 Y-adaptor	0291251
MSK1000-D15/D9 adaptor	0291252

#### JUNG ANTRIEBSTECHNIK U. AUTOMATION GMBH



# AHighDynamic® HM01 Modules & HA01 Guides with Adaptor AD06, External Incremental Positioning Sensor MSK1000 & Scale

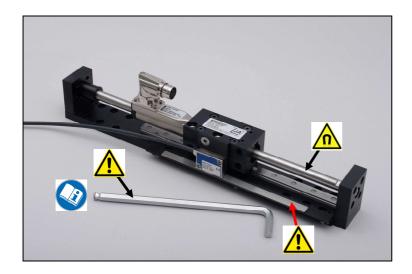




When ordering a completley mounted system, the sensor head will be mounted by us. A continuos test-run is included. After dismantling and before assembly, compliance with the mechanical specifications is mandatory - see page 1 of 3.



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 will be destroyed by strong magnetic fields.



043405m0\_en.doc Rev.: 12.03.2019 Technical changes reserved!