

External Position Sensor MS01-1/D-SSI

Non-contacting measuring position sensors, using magnets with integrated processing electronics for servo drives series C and E.

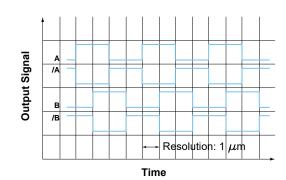
The absolute position value can be read from an upstream control unit with a resolution of 5μ m via encoder interface. In addition, an incremental interface with quadrature signals in various resolutions is available as an option.

Together with the MB01-1000-ABS magnetic band, the MS01/D-SSI position sensor is part of a high-resolution, robust, linear measurement system.

Features:

- Max. resolution:
 5 μm absolute, 1 μm incremental
- · Repeatability 0.005 mm
- Output circuit SSI, RS485 (absolute), LD (incremental)
- Reading distance sensor/strip max. 1.3 mm
- Max. measuring length 10.24 m
- State-LEDs for diagnosis





Strip length and counting direction

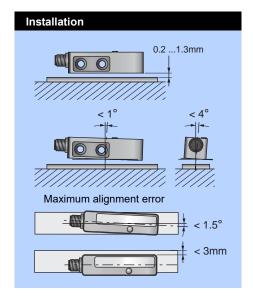
required strip length = measuring length + 80mm (min. 200mm)

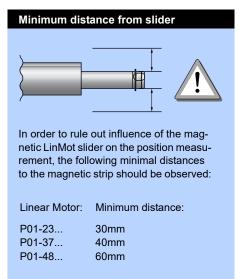
5 measuring 70 5 length

direction of travel

Print on strip Sensor

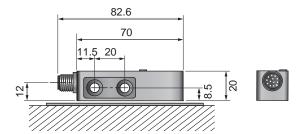
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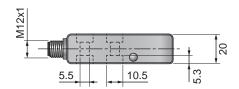


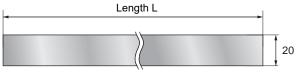


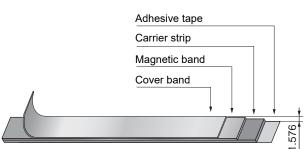


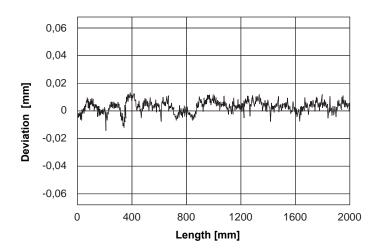
Dimensions











Pin 6	/A				
Pin 7	Α				
Pin 8	/B				
Pin 9	В				
Pin 10	Config	GND	The sensor is in the SSI mode.		
		+UB (while encoder suply is being turned on)	The sensor is in the boot loader mode for the first 10s (installing new firmware is enabled), then it changes over to the service mode.		
		+UB ¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	Setting of the position value to the calibration value (only if the sensor is in the SSI mode		

Pin 11 T+ Pin 12 OV

Technical data magnetic	Technical data magnetic band			
Order length	Measuring length +8.0cm			
Width	20mm			
Carrier material	spring steel band			
Precision class	± 50 µm at 20°C			
Temperature coeffici- ent	(11 ± 1) x 10 ⁻⁶ / °K			
Working temperature range	-2070°C			
Storage temperature range	-4070°C			
Protection class	IP 67			
Mounting	self adhesive magnetic band			
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Ordering information					
Item	Description	Part Number			
0150-2095	Linear Encoder 1 μ m, A/B(for absolute strip)	MS01-1/D-SSI			
0150-2096	Magnetic absolute strip, 1mm pitch, per cm	MB01-1000-ABS			
0150-3616	Encoder connector straigth	EC01-ABS/ENC-12-S			
0150-3652	Special cable for MS01-1/D-SSI on C1100/C1200/C1400/E1200/E1400 Drives	KSS01-12-D15/ABS-ENC-			