

Magnetic Sensor MSA111

Magnetic Strip MBA111



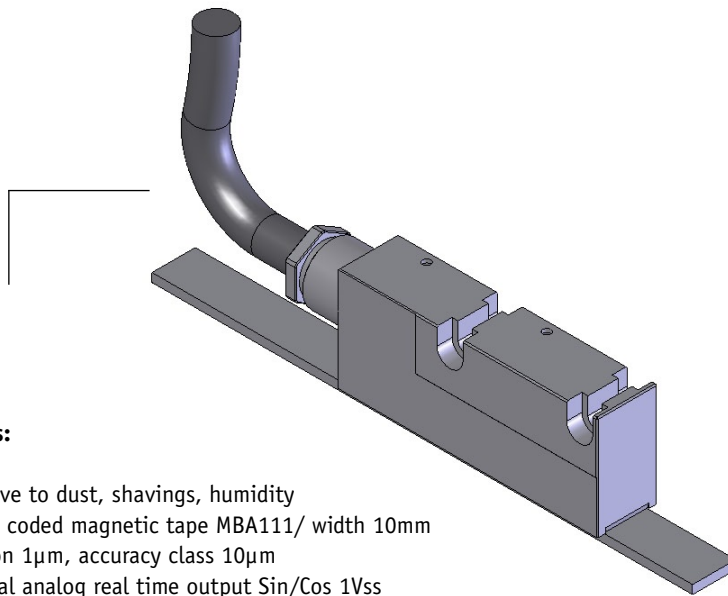
The sensor scans the absolute lane information of the magnetic tape MBA111. If combined with translation module AEA111, sensor data are processed for further use. In addition there's an analog 1Vss Sin/Cos signal for real time data interpretation.

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Features:

- insensitive to dust, shavings, humidity
- absolute coded magnetic tape MBA111/ width 10mm
- resolution 1µm, accuracy class 10µm
- additional analog real time output Sin/Cos 1Vss
- signal period 1mm

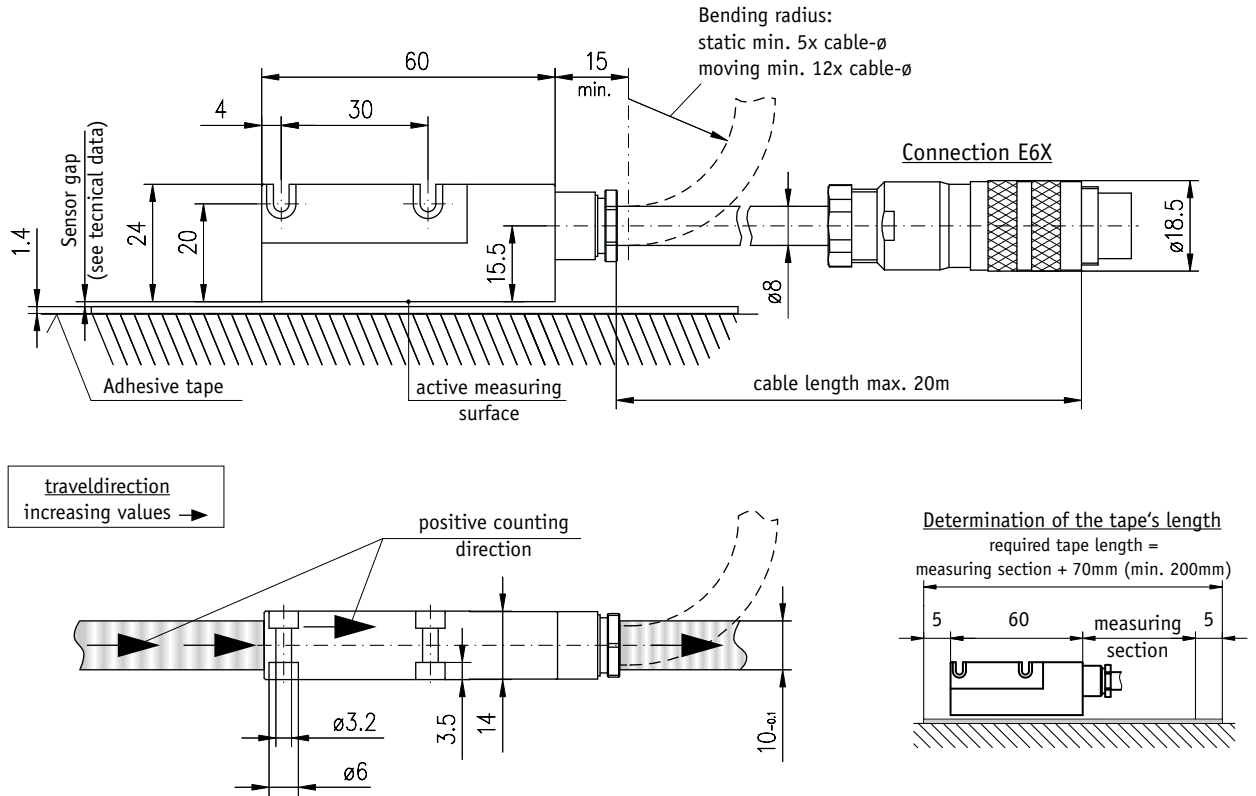
Feature	Order text	Additional information
Connection	E6X A	standard
Cable length L (in m)	... B max. 20m	standard 1,0m
Magnetic strip length	C 0,2...4,07m in 1cm steps	
Adhesive tape	TM D yes	
	TO D no	
Cover strip	AM E yes	
	A0 E no	

Your ordering: - - (magnetic sensor)

Your ordering: - - - (magnetic strip)

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Technical data

Additional information

Mechanical data:		
Housing	aluminium	
Sensor cable	PUR	
Electrical data:		
Realtime requirements	real-time signal processing	Sin/Cos output
Interference protection class	3	IEC-61000-6-2
Test mark	CE	
Environmental conditions:		
Operating temperature	-10°C ... +60°C	
Storage temperature	-30°C ... +80°C	
Humidity	100% rF, condensation permitted	
Type of protection	IP67	
System data:		
Resolution SSI	max. 1µm	
Suitable magnetic sensor	MBA111	
Pole length	1mm	
Period length Sin/Cos output	1000µm	
Travel speed static operation	< 0.3m/s (SSI)	
Travel speed dynamic operation	< 10m/s (Sin/Cos)	
System accuracy	±10µm	
Repeat accuracy	max. ±2µm	
Sensor (active measuring surface)/magnetic strip (top) gap	max. 0.1mm (with cover strip on magnetic strip) max. 0.2mm (without cover strip on magnetic strip) lateral misalignment ±0.3mm	
Temperature coefficient/strip	(11±1)×10 ⁻⁶ /K	
Measuring length	max. 4000mm	