Measuring length absolute up to 3 m linear position transducer







Measuring range from	100 to 3000mm
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High Resistance to shock and vibration

Working pressures up to 350bars

Customizable cursor

Absolute output



Absolute Contactless linear position measurement	
High Resolution, High Linearity	
Without null zone	
Unlimited mechanical life	

Rod, nipple and flange AISI 316

Easy in-field installation and replacement



High protection level

C F

EU conformity











on Shock/vibrat resistant

on Reverse polarity protection

-40....+85 Wide range temperature

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MAG100 is a magnetostrictive position transducer designed for use with hydraulic cylinders in mobile application. Its unique design, plus a wide range of cursor configurations, ensures easy installation and total compatibility with cylinder manufacturer specifications.

Working temperature from -40 to +85°C, working pressures up to 350 bars, high resistance to vibration and shock give the sensor the indispensable strength needed for heavy-duty use. High performance in terms of transduction of measurement defined as linearity, hysteresis and repeatability. The signal is Analog output.









Power supply = 10 ... 30 VDC

C	Sensor Output	
2	= 0,54,5 VDC	
33	= 4,50,5 VDC	
32	 = 0,254,75 VDC 	
34	= 4,750,25 VDC	
7	= 420 mA	
35	= 204 mA	

d	Type of connection	
24	= Male connector M12x4, PUR cable 30cm	

b	Measuring length	
XXXX = mm (steps of 0100 mm)		

e	Cursor	
X	= none	
0 🖣	 Custom cursor 	
1 •	= Standard cursor	

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TECHNICAL SPECIFICATION

Measuring range	0,13 m
Magnetostrictive resolution	0.1 mm
Magnetostrictive Linearity	±0.04 % (F.S)
Magnetostrictive Repeatability	±0.005 % (F.S)
Operating Pressure	350 bars (peak max 500 bars)
Type of connection	Male connector M12, 4-pin PUR cable 300 mm
Protection	IP67
Temperature range head	-40°C +85°C [-40°F+185°F]
Temperature Operating Rod	-40°C 125°C [-40°F+257°F]
Temperature Coefficient	±0.005 % (F.S)/°C
Material	stainless steel AISI316
Rod Diameter	10 mm
Nipples Thread	M18 x 1,5mm
Shock resistance	acc. to CEI EN 60068-2-27
Vibration resistance	acc. to CEI EN 60068-2-6:2009

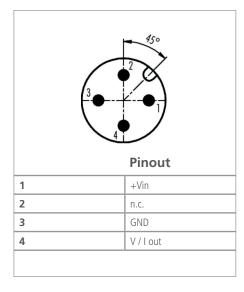


The magnetostrictive effect on metallic wire or rod creates a change in length or volume of the wire or rod in the presence of a magnetic field. Ferromagnetic metals can have negative or positive magnetostrictive properties, for example they can shrink or stretch which in turn decreases or increases its volume. This effect is used in our magnetostrictive linear position sensors.



Power supply	10 30 V DC
Reverse polarity protection	YES
Electromagnetic compatibility	acc. to EN 61000-6-2, EN 61000-6-4
CE compliant	acc. to EMC guideline 2014/30/EU RoHS guideline 2011/65/EU

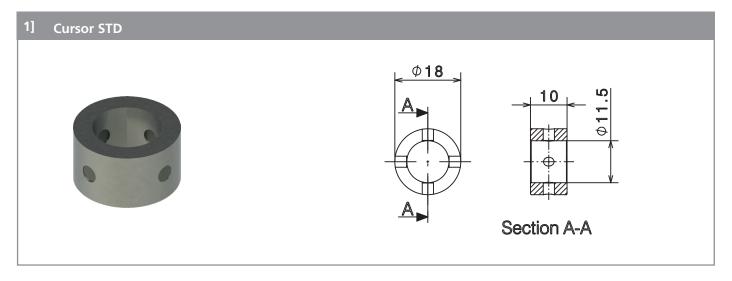
ELECTRICAL CONNECTION M12 X 4 PINS



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TYPE OF MAGNET



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DIMENSIONS [mm]

