

Non-Contact Magnetostrictive Position Sensor In Cylinder Applications

ANALOG V/mA

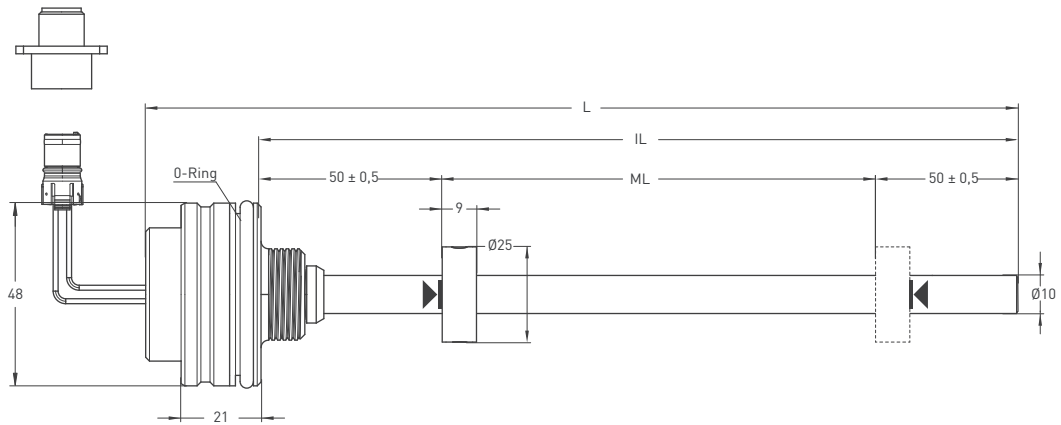
- Measuring length 50 - 3000 mm
- 15 bit resolution
- 0 - 20 mA, 4 - 20 mA
0 - 10 V, 10 - 0 V output
- 24 VDC power supply



Technical Specifications

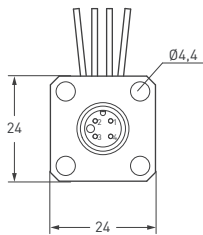
Measurement stroke	50 to 3000 mm
Resolution	15 bit DAC output
Repeatability	100 µm
Output	0-20mA, 20-0mA, 4-20mA, 20-4mA, 0-10V, 10-0V
Power supply	24 VDC ±10%
Displacement speed	max. <5 m/s
Linearity	100 mm %1 100 - 500 mm %0,8 500 - 1000 mm %0,5 1000 - 2500 mm %0,2
Sampling rate	Up to 2 kHz (depending on stroke length)
Vibration	EN 60068-2-6 , 5-200 Hz 200 m/s ² [20g] , 2h 30min each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s ² [50g] , 11ms. (x,y,z axis)
Update time	0-600mm, 0,5ms 600-1500mm, 1ms 1500-3000mm, 2ms
Max. consumption	< 50 mA - 90 mA (depending on stroke length)
Max. output noise	< 5 mVpp
Load resistance	max. 500 Ohm
Reverse polarity protection	Up to -30 VDC
Overvoltage protection	Up to +30 VDC
Pressure rating	< 500 bar
Sealing	O-ring: NBR Backup Ring: PTFE
Mounting	M18x 1.5 or 3/4"-16 UNF O-ring or Flat
Case material	Profile :Anodized aluminium Tube: Stainless steel Caps: Stainless steel
Protection level	IP 67
Operating temperature	-10°C ... +70°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications

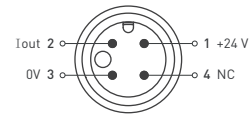


MSP (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000
ML (Measuring Length)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000
IL (Installation Length)	159	209	259	309	359	409	459	509	559	609	659	709	759	809	859	909	959	1009	1109	1209	1309	1409	1509	1609	1889	2139	2389	2639	3139
L (Total Length)	180	230	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1130	1230	1330	1430	1530	1630	1910	2160	2410	2660	3160
Dead Zone Calculation	50 / 50																								80 / 50				

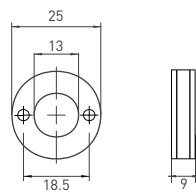
Connector



4 pin Male Connector Configuration



Cursor



R05

Ordering Procedure

Model	Measuring range	Rod & Thread	Resolution	Cursor	Output	Connector/Cable	Dead zone
MSP	300	E10	B	1R05	I40	CN5A	50/50
MSP	50 - 3000 mm	E010 : Ø10	B : 15 bit	R05: 25 mm	I40 : 4-20mA I04 : 20-4mA I20 : 0-20mA I02 : 20-0mA V10 : 0-10V V01 : 10-0V	CN5A : M12 CN5B : M16 CN6A : M12 CN6B : M16 CN8A : M12 CN8B : M16 1M: 1 meter (standard)	≤ 1500 mm 50/50 > 1750-3000 mm 80/50