

Non-Contact Magnetostrictive Position Sensor

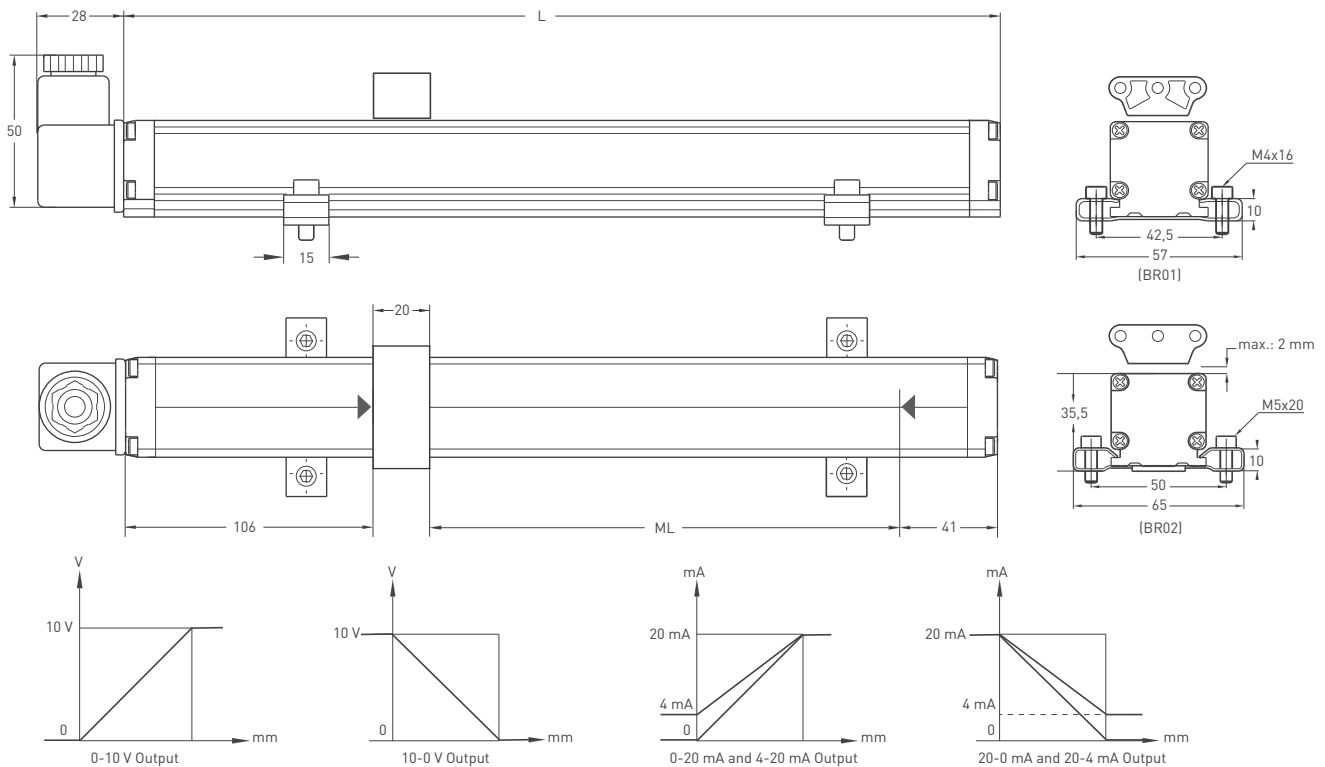
- Measuring length 50 to 5000 mm
- 16 bit resolution
- 0 - 10V, 0 - 20 mA, 4 - 20 mA output
- Speed information can be provided optionally.



Technical Specifications

Measurement stroke	50 to 5000 mm
Resolution	16 bit DAC output
Linearity	50-100 mm < %1, 100-300 mm < %0.2, 300-500 mm < %0.1, 500-5000 mm > %0.05
Repeatability	±0,01% (full scale)
Output	0-10V, 10-0V, 0-20 mA, 20-0 mA, 4-20 mA, 20-4 mA (Speed information can be provided optionally.)
Power supply	24 VDC ±10%
Displacement speed	max. < 5 m/s
Update time	(0-600mm, 0,5ms), (601-1500mm, 1ms), (1501-3000mm, 2ms), (3001-5000mm, 3ms)
Load resistance	500 Ohm
Max. consumption	50 mA - 90 mA (depending on stroke length)
Max. output noise	< 5 mVpp
Reverse polarity protection	Up to -30 VDC
Overvoltage protection	Up to +30 VDC
Vibration	EN 60068-2-6 , 5-200 Hz 200 m/s ² (20g) , 2h 30 min each axis {x,y,z}
Shock	EN 60068-2-2:2007 500 m/s ² (50g) , 11ms. {x,y,z axis}
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Mechanical fixing	Variable brackets
Protection level	IP 65
Operating temperature	-10°C ... +70°C
Storage temperature	-30°C ... +90°C

Mechanical Specifications



MSS (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	4000	5000
ML (Measuring Length)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	890	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	3000	4000	5000
L (Total Length)	217	267	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017	1067	1167	1267	1367	1467	1567	1667	1917	2241	2491	2741	3261	4281	5281
Dead Zone Calculation	106/41																														

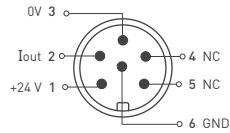
Round Connector

5 pin Connector Configuration



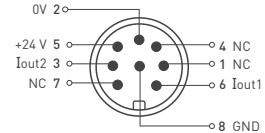
CN5 M12 (A) / M16 (B)
5 pin

6 pin Connector Configuration

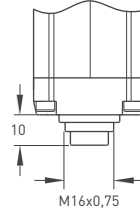
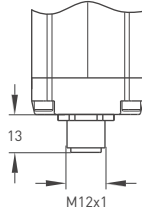


CN6 M12 (A) / M16 (B)
6 pin

8 pin Connector Configuration

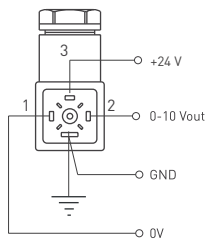


CN8 M12 (A) / M16 (B)
8 pin



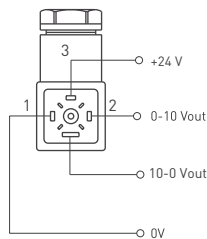
Hydraulic Type Connector

CH1



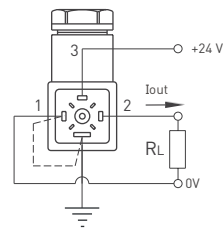
0-10V or 10-0V Output

CH1



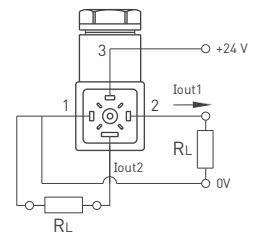
0-10V and 10-0V Output

CH1



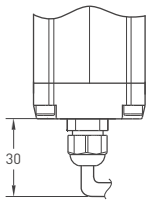
0-20mA or 4-20mA Output

CH2



0-20mA and 4-20mA Output

Cable



Voltage Output

+V : Brown
0V : Blue
0V Sense : Black
Output 1 : White (0-10V)
Output 2 : Orange (10-0V)
Earth : Shield

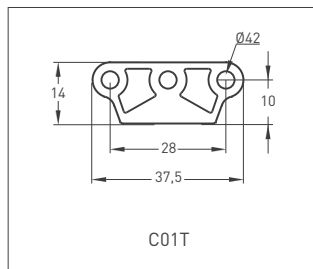
Current Output

+V : Brown
0V : Blue
0V Sense : Black
Output 1 : White (Iout1)
Output 2 : Orange (Iout2)
Earth : Shield

Cable Length

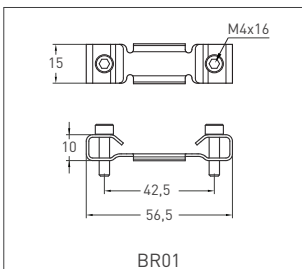
1M : 1 meter (standard)
(Different cable length optional.)

Cursor

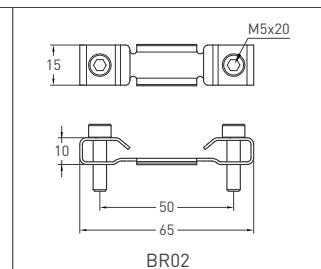


C01T

Brackets



BR01



BR02

Ordering Procedure

Model	Measuring range	Resolution	Cursor	Output1		Output2(optional)	Connector / Cable	Bracket	Dead zone
MSS	300	A	C01T	V10		Sxxx	CH1	BR02	106/41
MSS	50 - 5000mm	A: 16 bit B: 15 bit C: 14 bit D:13 bit E: 12 bit	1C01T: 1 cursor 2C01T: 2 cursors	V10 : 0-10V 2V10 : 0-10V/0-10V V01 :10-0V 2V01 :10-0V/10-0V V11 : 0-10V/10-0V V50 : 0-5V 2V50 : 0-5V/0-5V V05 : 5-0V 2V05 : 5-0V/5-0V V51 : 0-5V/5-0V	I40 : 4-20mA 2I40 : 4-20mA/4-20mA I04 : 20-4mA 2I04 : 20-4mA/20-4mA I41 : 4-20mA/20-4mA I20 : 0-20mA 2I20 : 0-20mA/0-20mA I02 : 20-0mA 2I02 : 20-0mA/20-0mA I21 : 0-20mA/20-0mA	Sxxx S : Speed xxx : max. speed (mm/s)	CH1 : 4 pin, hydraulic type connector CN5A : 5 pin, M12 connector CN5B : 5 pin, M16 connector CN6A : 6 pin, M12 connector CN6B : 6 pin, M16 connector CN8A : 8 pin, M12 connector CN8B : 8 pin, M16 connector 1M: 1 meter 2M5: 2,5 meters	BR01 BR02	≤ 2000 mm 106/41 > 2000-3000 mm 180/41 > 3000-4000 mm 200/41 > 4000-5000 mm 220/41

* T-coded sensors are used with T-coded cursors.