

## Features

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

## RS PRO Motion Control Sensor

### Non-Contact Magnetostrictive Position Sensor

Stock No.. 100475, 100476, 100477, 100479, 100480



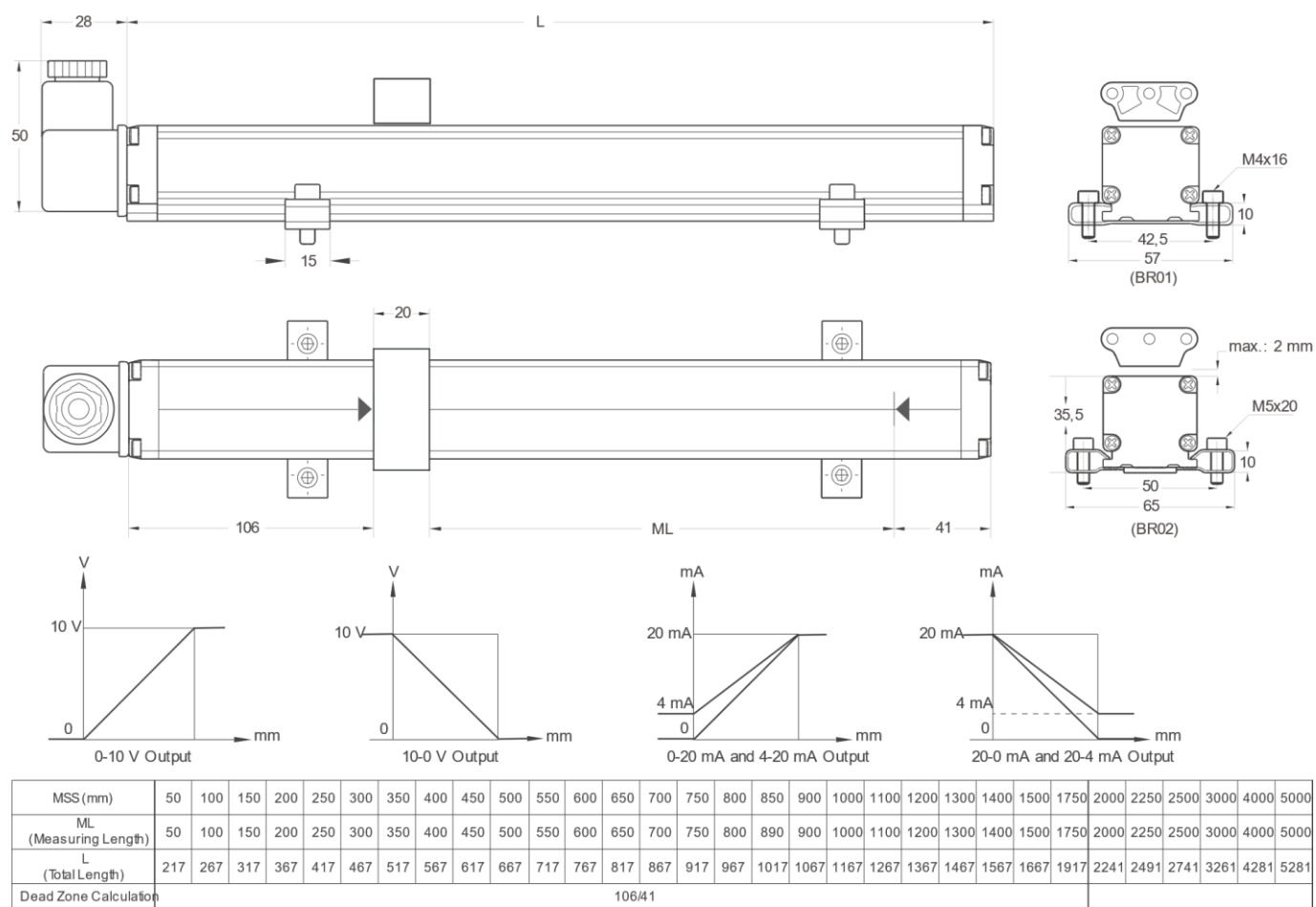
RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Series designed as compact, highly robust, accurate linear position sensors, using magnetostrictive technology, up to 5000 mm measuring length.

Series linear position sensors provides absolute linear position feedback for wide range of industrial applications.

Mechanical Specifications



## General Specifications

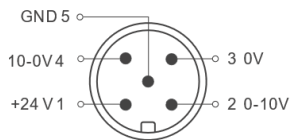
Measurement stroke	50-5000 mm
Linearity	50-100 mm <%1, 100-300 mm <%0.2, 300-500 mm <%0.1, 500-5000 mm >%0.05
Repeatability	<%0.01 mm (full scale)
Resolution	16 bit DAC output
Output	0-10V, 10-0V, 0-20mA, 20-0mA, 4-20mA, 20-4mA (Speed information can be provided optionally.)
Power supply	24 VDC $\pm$ 10%
Displacement speed	Max. <5 m/s
Update time	0-600 mm: 0.5 ms, 601-1500 mm: 1 ms, 1501-3000 mm: 2 ms, 3001-5000 mm: 3 ms
Load resistance	500 Ohm
Maximum consumption	50mA – 90mA (depending on stroke length)
Maximum 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 <sup>2</sup> (20g) 2h 30min each axis (x,y,z)
Shock	EN 60068-2-2:2007 500 m/s <sup>2</sup> (50g) 11ms (x,y,z axis)
Case dimensions	33 mm x 33 mm
Case material	Anodized aluminium
Mechanical fixing	Variable brackets
Protection level	IP 67
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

## Approvals

Declarations	CE, UKCA, ROHS, REACH
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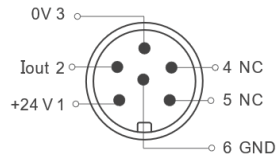
## Round Connector

5 pin Connector Configuration



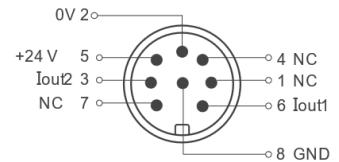
CN5 M12 (A) / M16 (B)  
5 pin

6 pin Connector Configuration

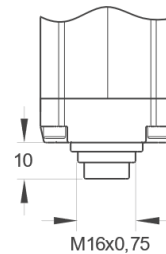
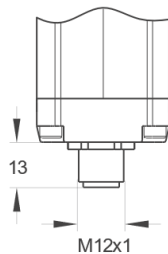


CN6 M12 (A) / M16 (B)  
6 pin

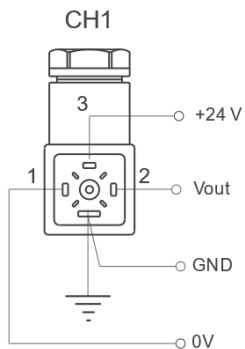
8 pin Connector Configuration



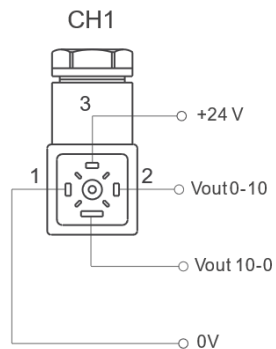
CN8 M12 (A) / M16 (B)  
8 pin



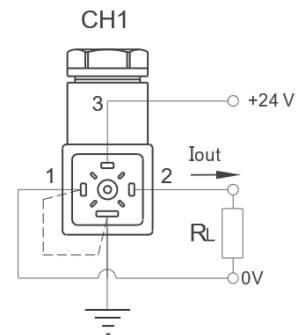
## Hydraulic Type Connector



0-10V or 10-0V Output

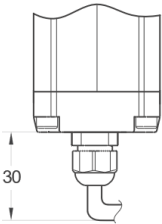


0-10V and 10-0V Output



0-20mA or 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

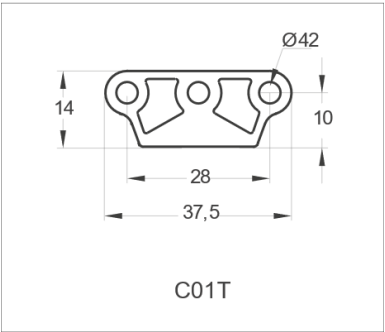
Current Output

- +V : Brown
- 0V : Blue
- 0V Sense : Black
- Output 1 : White (out1)
- Output 2 : Orange (out2)
- Earth : Shield

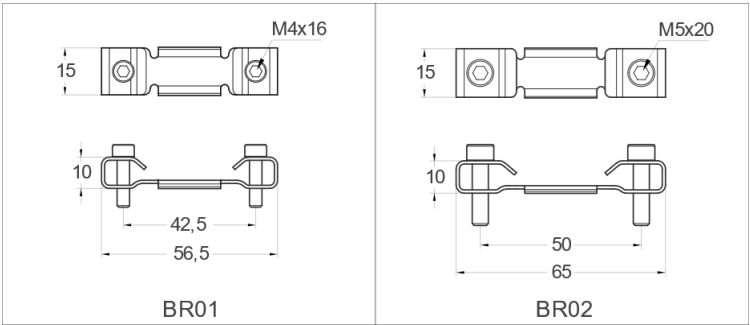
Cable Length

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

Cursor



Brackets



## Articles In Series

RS PRO Part Number	MPN	Stroke length	Cursor	Bracket	Output	Connector / Cable
	0100475	200mm	1C01T	BR02	4..20mA	8pin, M12 connector
	0100476	200mm	1C01T	BR02	0..10V/10..0V	8pin, M12 connector
	0100477	250mm	1C01T	BR02	0..10V/10..0V	8pin, M12 connector
	0100479	300mm	1C01T	BR02	4..20mA	8pin, M12 connector
	0100480	300mm	1C01T	BR02	0..10V/10..0V	8pin, M12 connector