

POSIWIRE[®]

Cable Extension Position Sensors

WS10SG
Position Sensor

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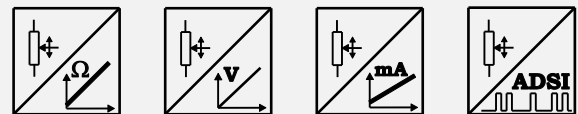
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Analog output, SSI output



Sensor features

- Measurement range up to 1250 mm
- Protection class IP65 (with mating connector only)
- Analog output, SSI output



Specifications

Output	R1K = Potentiometer 1 kΩ 10V = Voltage 0 ... 10 V 420A = Current 4 ... 20 mA, 2 wire 420T = Current 4 ... 20 mA, 3 wire PMUI = Current output, programmable PMUV = Voltage output, programmable ADSI = Signal conditioner SSI 12 bit, replaced by MSS112 ADSI14 = Signal conditioner SSI 14 bit, replaced by MSS114 ADSI16 = Signal conditioner SSI 16 bit, replaced by MSS116
Resolution	Analog: quasi infinite
Linearity	±0.10% f.s. (standard) ±0.05% f.s. (optional)
Sensing device	Precision potentiometer
Housing material	Plastic, aluminium measuring cable: stainless steel
Protection class	IP65 (with mating connector only)
Connection	Connector M12, 8 pin
Temperature range	-20 ... +85 °C
Weight	approx. 450 g
EMC	DIN EN 61326-1:2013

Cable forces typical at = 20 °C	Measurement range	Maximum pull-out force	Minimum pull-in force
	[mm]	[N]	[N]
	100	4,7	3,0
	125	4,6	2,4
	375	7,4	3,9
	500	5,5	2,8
	750	7,6	3,8
	1000	5,3	2,9
	1250	4,6	2,4

Order code

WS10SG – 1 – 2 – 3 – 4 – 5

1 Measurement range (in mm)

100 / 125 / 375 / 500 / 750 / 1000 / 1250

2 Output

- R1K** = Potentiometer 1 kΩ
- 10V** = Voltage 0 ... 10 V
- 420A** = Current 4 ... 20 mA, 2 wire
- 420T** = Current 4 ... 20 mA, 3 wire
- PMUI** = Current output, programmable
- PMUV** = Voltage output, programmable

- ADSI** = Signal conditioner SSI 12 bit, replaced by MSS112
- ADSI14** = Signal conditioner SSI 14 bit, replaced by MSS114
- ADSI16** = Signal conditioner SSI 16 bit, replaced by MSS116

3 Linearity

- L10** = ±0.10% f.s. (standard)
- L05** = ±0.05% f.s. (optional)

4 Cable fixing

- M4** = M4 cable fixing
- SB0** = cable clip

5 Connection

- M12** = Connector M12, 8 pin

Order example

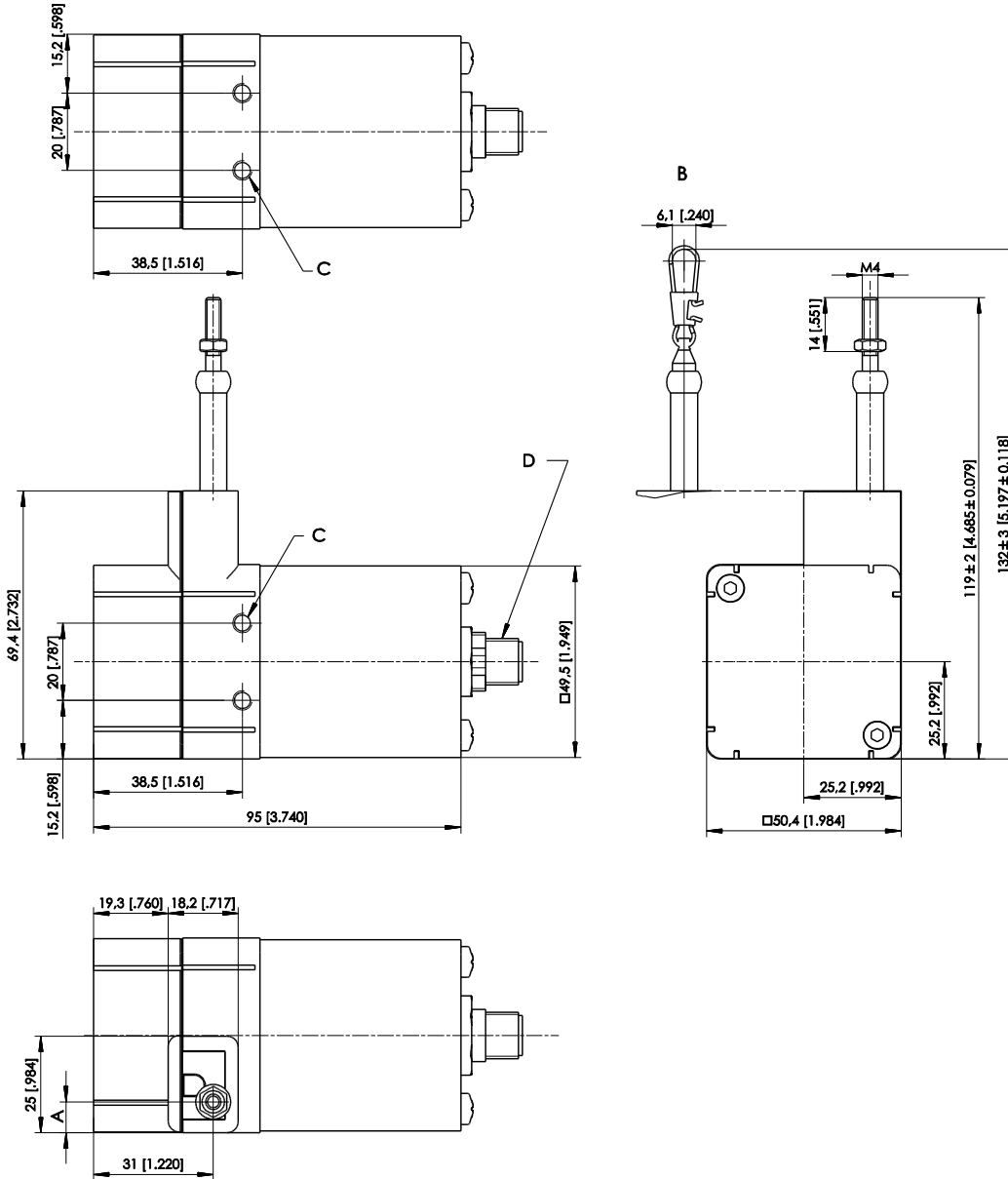
WS10SG – 1250 – 10V – L10 – M4 – M12

Accessories:

Connector cable (see page 45)

Dimensions

Measurement range 100 ... 1250 mm, analog output, SSI output



Dimensions in mm	Measurement range	A
	375; 750	12.4
	100; 125; 500; 1000; 1250	8

B – Option SB0
C – M5 - 8 [.315] deep
D – Connector M12

Dimensions in mm [inch]
Dimensions informative only.
For guaranteed dimensions consult factory.