

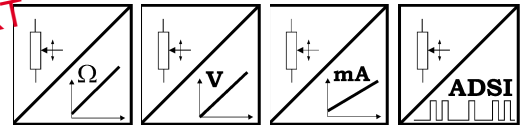
WS2.1 Position Sensor with Analog or A/D converted synchronous serial output



Compact Sensor for Medium Ranges

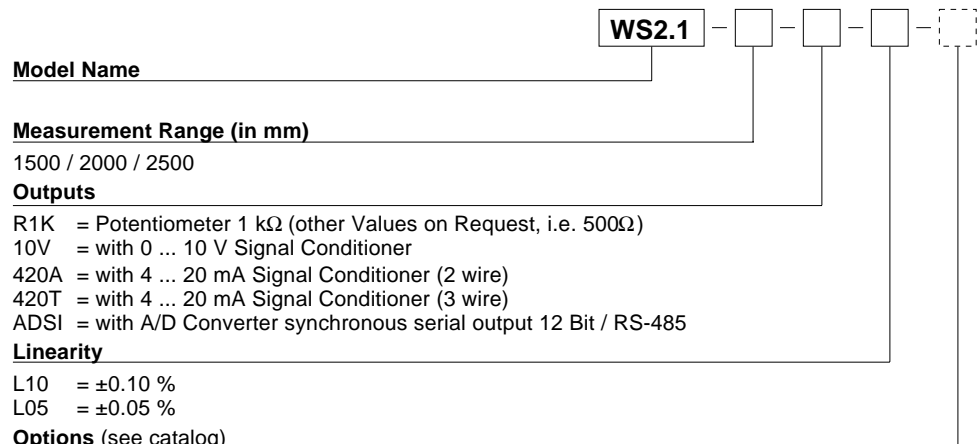
- Protection Class IP50
- Measurement Range:
0 ... 1500 mm to 0 ... 2500 mm
0 ... 59.06 in to 0 ... 98.43 in
- With Analog Output or
A/D Converter with synchronous serial output

Discontinued model
Don't use for further developments
Replaced by WS17KT



Specifications	Outputs	Potentiometer: 1 kΩ Voltage: 0...10 V Current: 4...20 mA, 2 or 3 wire A/D Converter synchronous serial 12 Bit RS-485
	Resolution	Essentially infinite / ADSI: 12 Bit Full Scale
	Material	Aluminium and Stainless Steel Cable: Stainless Steel
	Sensing Device	Precision Potentiometer
	Connector	Male Socket 8 pin DIN 45326
	Linearity	Up to ±0,05 % Full Scale
	Protection class (IEC 529)	IP50
	Weight	1.8 kg approx.
	Environmental	
	Immunity to Interference	Refer to Output Specification
	Temperature	Refer to Output Specification
	Humidity	90 % R.H. max. non condensing
	Shock	50 g's max. for 6 ms Duration
	Vibration	10 g's max. (1 Hz - 2000 Hz)

Order Code WS2.1 Analog



Order Code Mating Connector

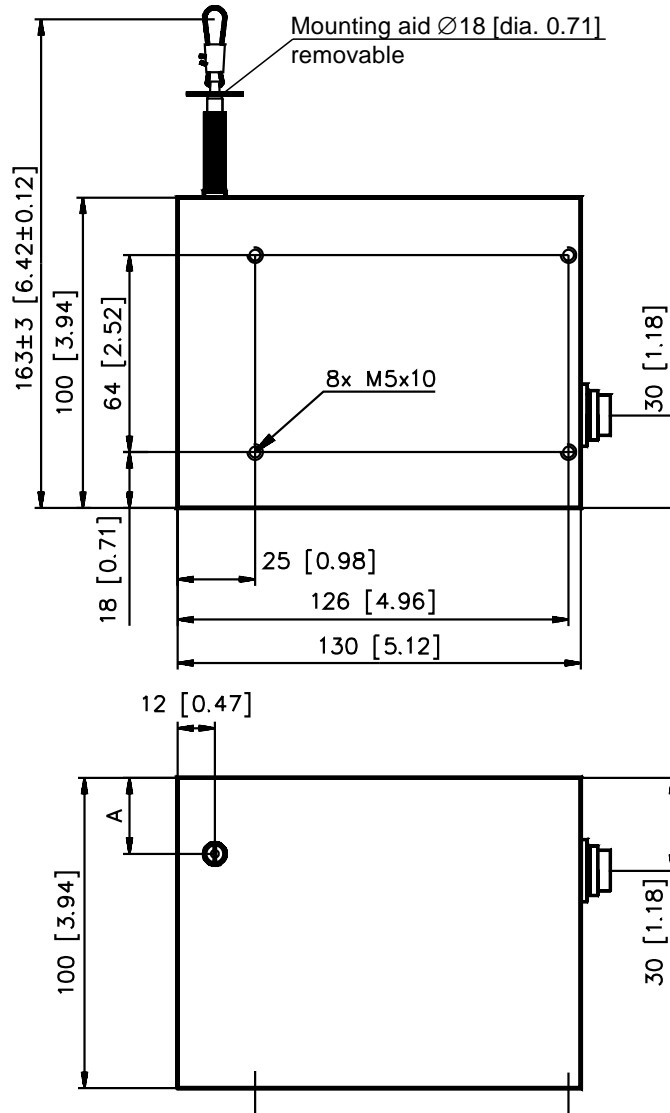
WS-CONN-D8

Order Example: WS2.1 - 2500 - 10V - L10

WS2.1 Position Sensor with Analog or A/D converted synchronous serial output



Cable Forces typical at 20 °C	Range		Maximum Pull-out Force [N]	Minimum Pull-in Force [N]
	[mm]	[in]		
	1500	59.06	10.2	6.7
	2000	78.74	8.4	5.4
	2500	98.43	7.2	4.8



Dimensions in brackets are inches.
For guaranteed dimensions consult factory

Dimensions (mm)	Range		A
	[mm]	[in]	
Dimensions (mm)	1500	59.06	24.5
	2000	78.74	16.5
	2500	98.43	8.5
Dimensions (in)	59.06	2.325	0.96
	78.74	3.100	0.65
	98.43	3.875	0.33

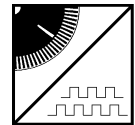
WS2.1 Position Sensor with Incremental Encoder



Compact Sensor for Medium Ranges

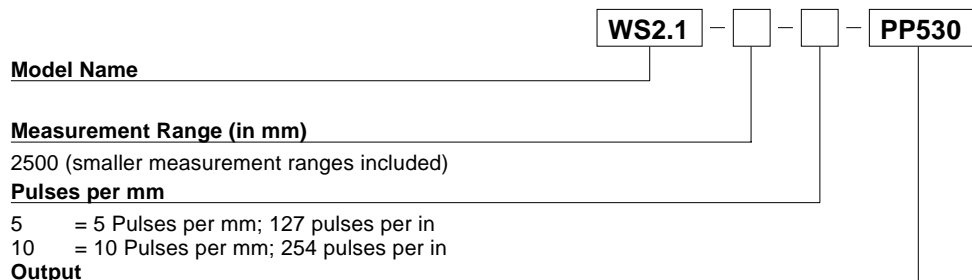
- Protection Class IP50
- Measurement range:
0 ... 2500 mm
0 ... 98.43 in
- Incremental Encoder Output

Discontinued model
Don't use for further developments
Replaced by WS17KT



Specifications	Outputs	Incremental Encoder Output with differential Push-pull Circuit for reliable Data Transmission. The output is compatible with LD, TTL and CMOS.
Resolution		5 or 10 pulses per mm; 127 or 254 pulses per in.
Distance between Reference Pulses		200 mm; 7.87 in
Material		Aluminium and Stainless Steel. Cable: Stainless Steel
Sensing Device		Incremental encoder
Connector		Male Socket 8 pin DIN 45326
Linearity		±0,05 % Full Scale
Protection Class (IEC 529)		IP50
Weight		1.8 kg approx.
Environmental		
Immunity to Interference (EMC)		Refer to Output Specification
Temperature		Refer to Output Specification
Humidity		85 % R.H. max. non condensing
Shock		30 g's for 11 ms Duration
Vibration		10 g's max. (50 Hz / 1 h)

**Order Code WS2.1
Incremental**



Order Code Mating Connector

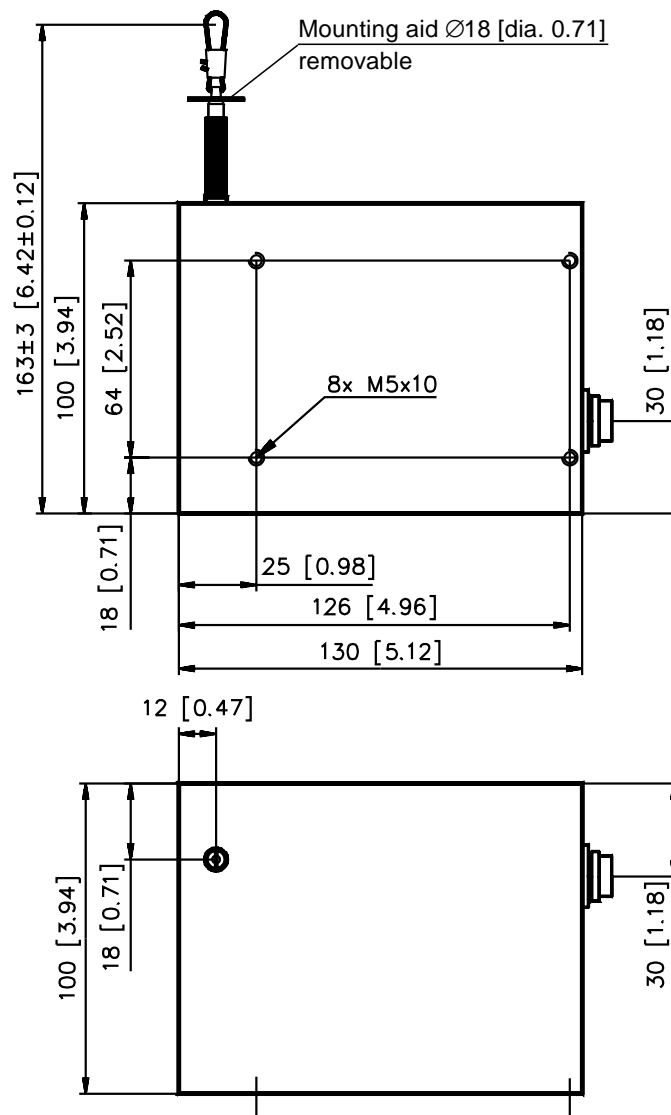
WS-CONN-D8

Order Example: WS2.1 - 2500 - 5 - PP530

WS2.1 Position Sensor with Incremental Encoder



Cable Forces typical at 20 °C	Range		Maximum Pull-out Force [N]	Minimum Pull-in Force [N]
	[mm]	[in]		
	2500	98.43	8.6	5.7



Dimensions in brackets are inches.
For guaranteed dimensions consult factory