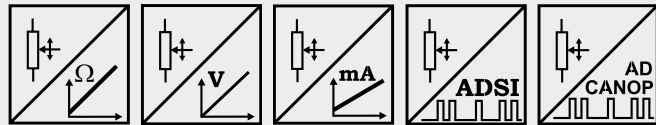


POSIWIRE® WS10SG Analog, SSI or CANopen Output



Very compact sensor for industrial applications

- Protection class IP65
- Measurement range 0 ... 100 mm to 0 ... 1250 mm
- Analog output or
A/D converted synchronous serial output (SSI) or
A/D converted CANopen output



Specifications	Outputs	Potentiometer 1 kΩ Voltage 0 ... 10 V Current 4 ... 20 mA, 2 or 3 wire Voltage or current output, programmable (PMUV/PMUI) A/D converted synchronous serial interface (SSI) A/D converted CANopen bus
	Resolution	Analog: essentially infinite ADSI16: max. 16 bit f.s. ADCANOP: 16 bit f.s.
	Linearity	Up to ±0.05% f.s.
	Sensing device	Precision potentiometer
	Material	Aluminum, stainless steel and plastic; cable: stainless steel
	Protection class	IP65 (with mating connector only)
	Connection	Male 8 pin socket M12 (ADCANOP: 5 pin socket)
	Weight	350 g approx.
	EMC, temperature	Refer to output specification

Order code WS10

WS10SG - [] - [] - [] - [] - []

Model name

Measurement range (in mm)

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

Output

R1K = Potentiometer 1 kΩ
 10V = 0 ... 10 V signal conditioner
 420A = 4 ... 20 mA signal conditioner
 420T = 4 ... 20 mA signal conditioner
 PMUV/PMUI = Programmable 0... 10 V or 4 ... 20 mA signal conditioner
 ADSI16 = A/D converted synchronous serial interface 16 bit (12 or 14 bit opt.)
 ADCANOP = A/D converted CANopen bus

Linearity

L10 = ±0.10 % option: L05 = ±0.05 % L25 = ±0.25 %

Cable fixing

M4 = M4 cable fixing
 SB0 = Cable clip

Connection

M12 = 8 pin socket M12 (not for ADCANOP)
 M12/CAN = 5 pin socket M12 (only for ADCANOP)

Order code connector cable: see page 82/83

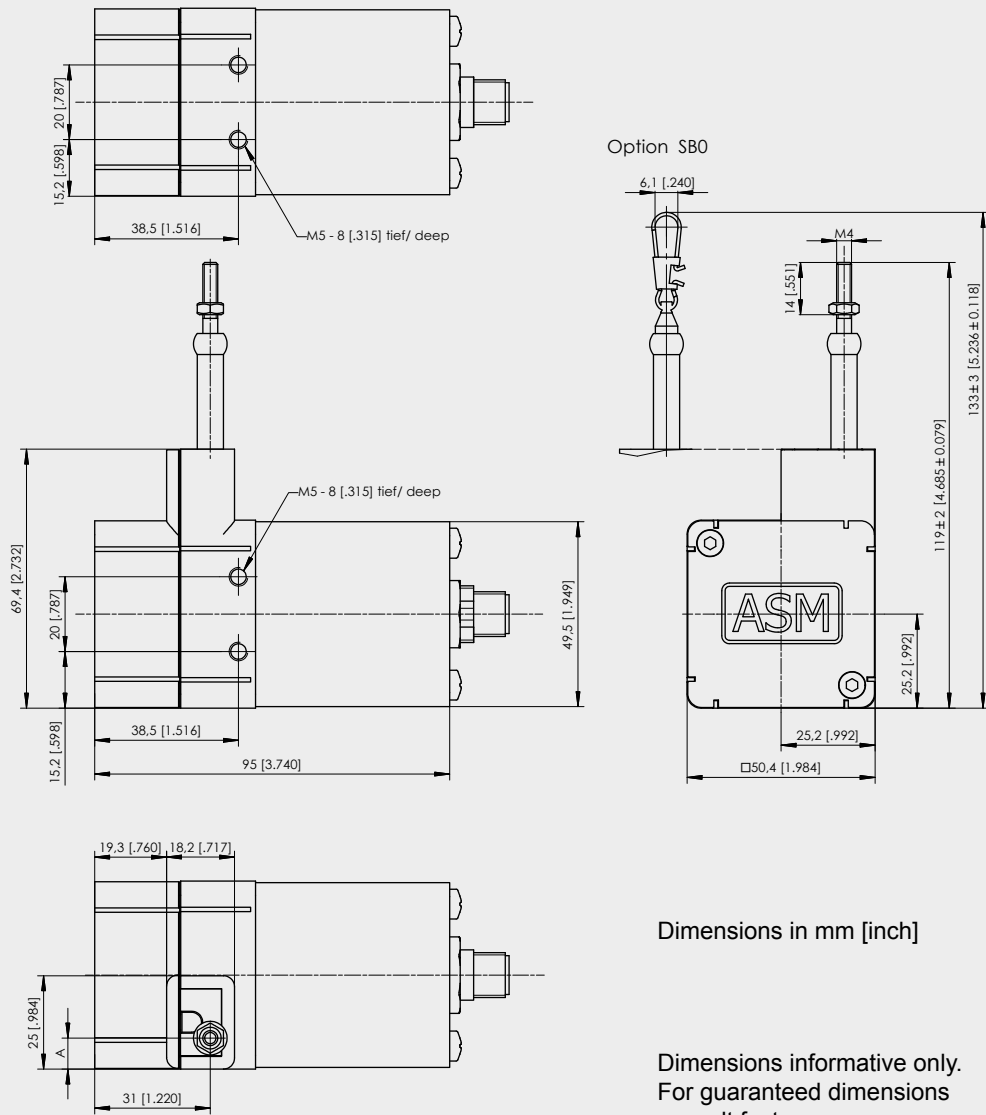
Order example: WS10SG - 1250 - 10V - L10 - M4 - M12

POSIWIRE® WS10SG Analog, SSI or CANopen Output



Cable forces, typical at 20 °C	Measurement range	Max. pull-out force	Min. 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

Outline drawing



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

POSIWIRE® Accessories for WS® Position Sensors



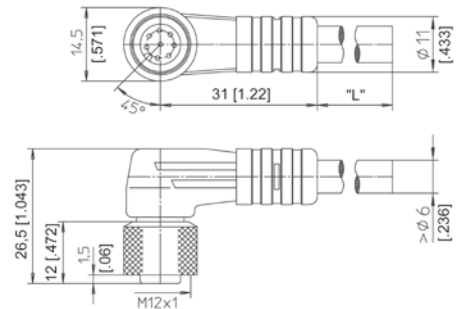
**Connector cable
for WS® position
sensors**
8 pin M12

The 8-lead shielded cable is supplied with a mating 8-pin 90° M12 connector at one end and 8 wires at the other end. Available lengths are 2 m, 5 m and 10 m. Wire: cross sectional area 0.25 mm².

Order code:

KAB - XM - M12/8F/W - LITZE
IP69K: KAB - XM - M12/8F/W/69K - LITZE

Length in m



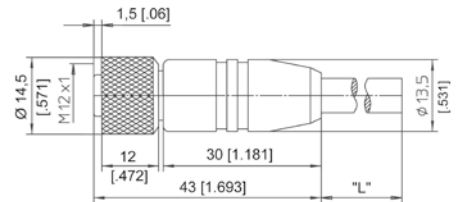
**Connector cable
for WS® position
sensors**
8 pin M12

The 8-lead shielded cable is supplied with a mating 8-pin M12 connector at one end and 8 wires at the other end. Available lengths are 2 m, 5 m and 10 m. Wire: cross sectional area 0.25 mm².

Order code:

KAB - XM - M12/8F/G - LITZE
IP69K: KAB - XM - M12/8F/G/69K - LITZE

Length in m



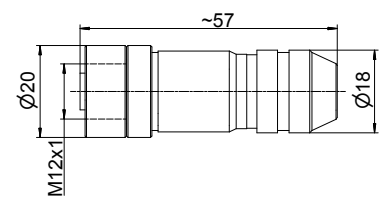
Connector cable wiring - M12, 8 pin	Connector pin / cable color							
	1	2	3	4	5	6	7	8
	White	Brown	Green	Yellow	Gray	Pink	Blue	Red

**Connector for WS®
position sensors**
8 pin M12

Female connector.

Order code:

CONN - M12 - 8F - G

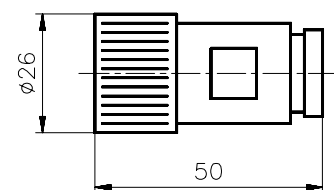


**Connector for WS®
position sensors**
12 pin CONIN

Female connector.

Order code:

CONN - CONIN - 12F - G



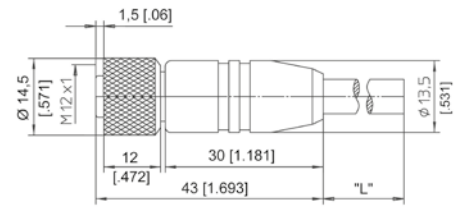
POSIWIRE® Accessories for WS® Position Sensors



Connector/bus cable for WS® position sensors

5 pin M12
CAN bus/DeviceNet

The 5-lead shielded cable is supplied with a female 5-pin M12 connector at one end and a male 5-pin M12 connector at the other end. Available lengths are 0.3 m, 2 m, 5 m and 10 m.



Order code:

KAB - XM - M12/5F/G - M12/5M/G - CAN

IP69K: KAB - XM - M12/5F/G/69K - M12/5M/G/69K - CAN

Length in m

T-piece for bus cable

5 pin M12
CAN bus/DeviceNet

Order code:

KAB - TCONN - M12/5M - 2M12/5F - CAN



Terminating resistance

5 pin M12
CAN bus/DeviceNet

Order code:

KAB - RTERM - M12/5M/G - CAN

