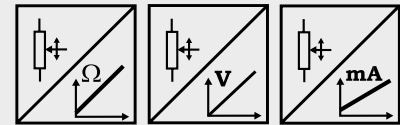


POSIWIRE®
WS100M
Analog Output



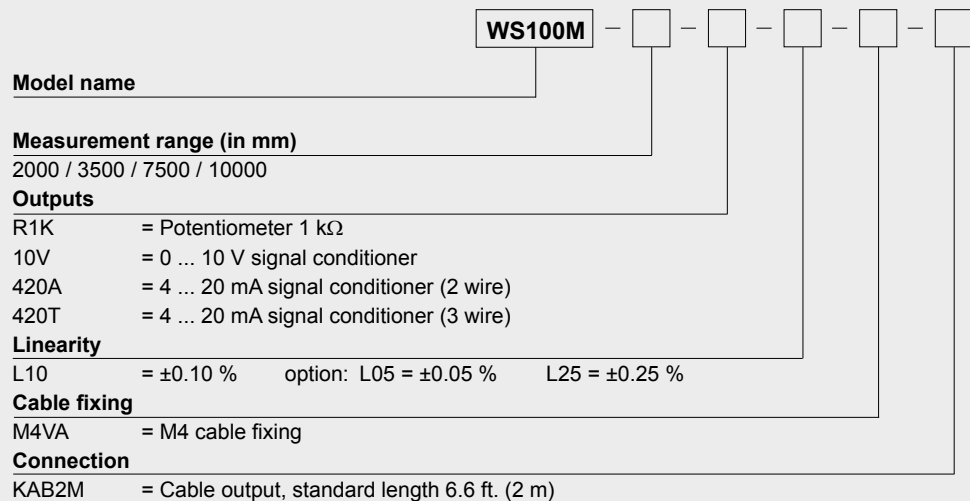
Sensor for hostile environments and offshore applications

- Protection class IP68/IP69K
- Measurement ranges 0 ... 78.74 to 393.7 in.
 (0 ... 2000 mm to 0 ... 10000 mm)
- Analog output



Specifications	Outputs	Potentiometer 1 kΩ Voltage 0 ... 10 V Current 4 ... 20 mA, 2 or 3 wire
	Resolution	Essentially infinite
	Linearity	Up to ±0.05 % f. s.
	Sensing device	Hybrid precision potentiometer
	Material	Stainless steel; cable: stainless steel
	Protection class	IP68/IP69K
	Connection	Cable output, standard length 6.6 ft. (2 m)
EMC, temperature	Refer to output specification	

Order code WS100M

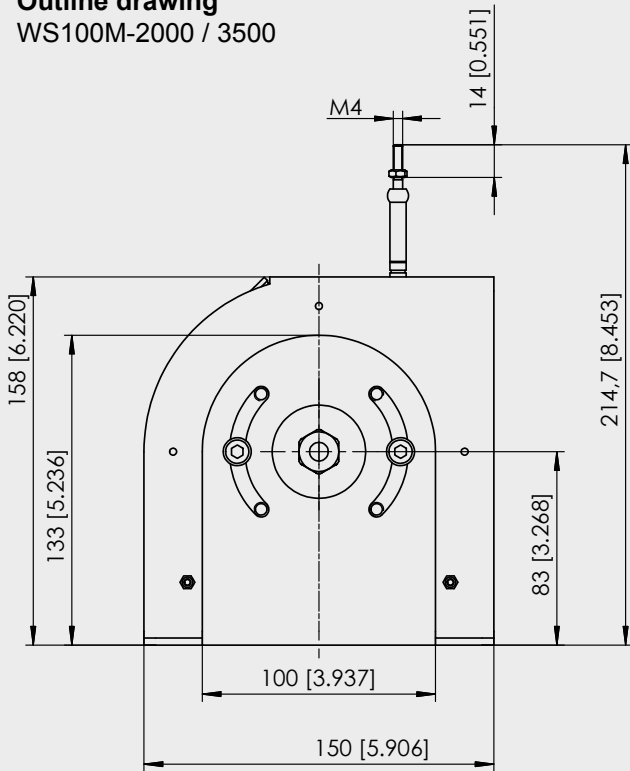


Order example: WS100M - 7500 - 420T - L10 - M4VA - KAB2M

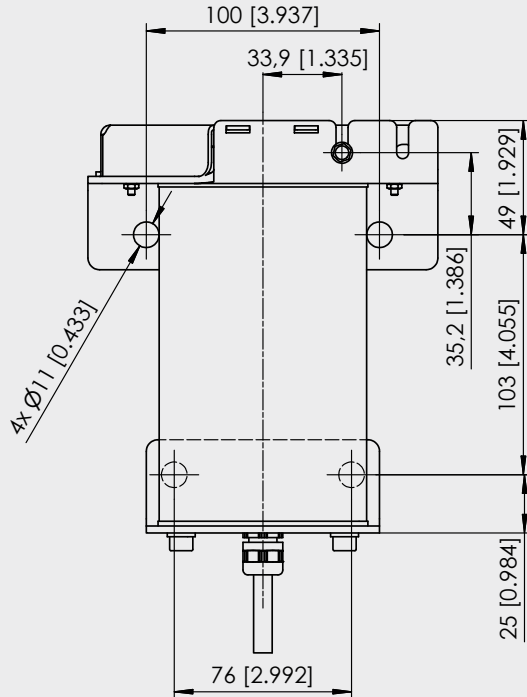
POSIWIRE®
WS100M
Analog Output



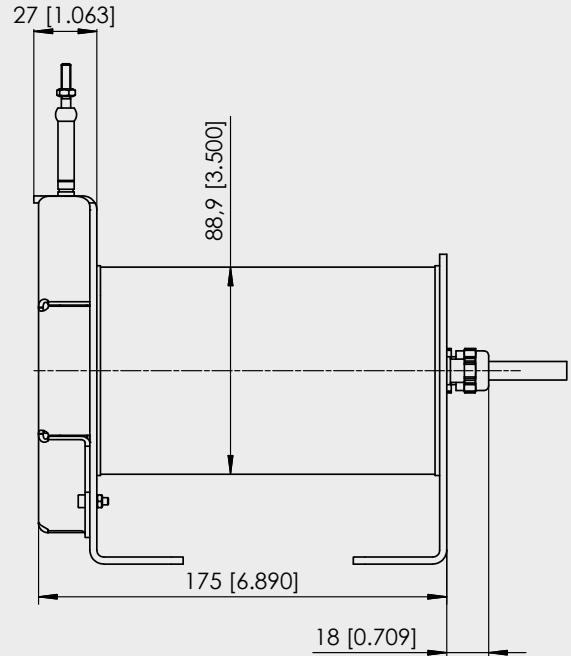
Outline drawing
 WS100M-2000 / 3500



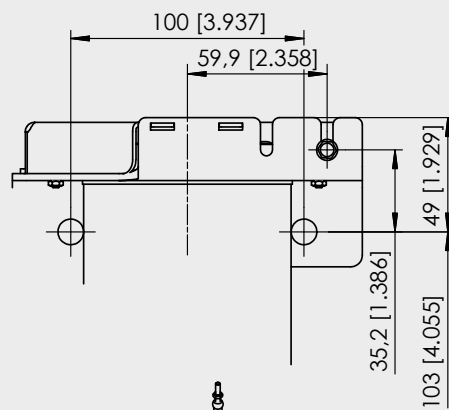
Measurement range 2000 mm



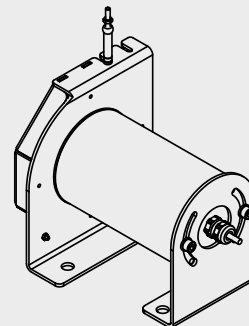
Dimensions in mm [inch]



Measurement range 3500 mm



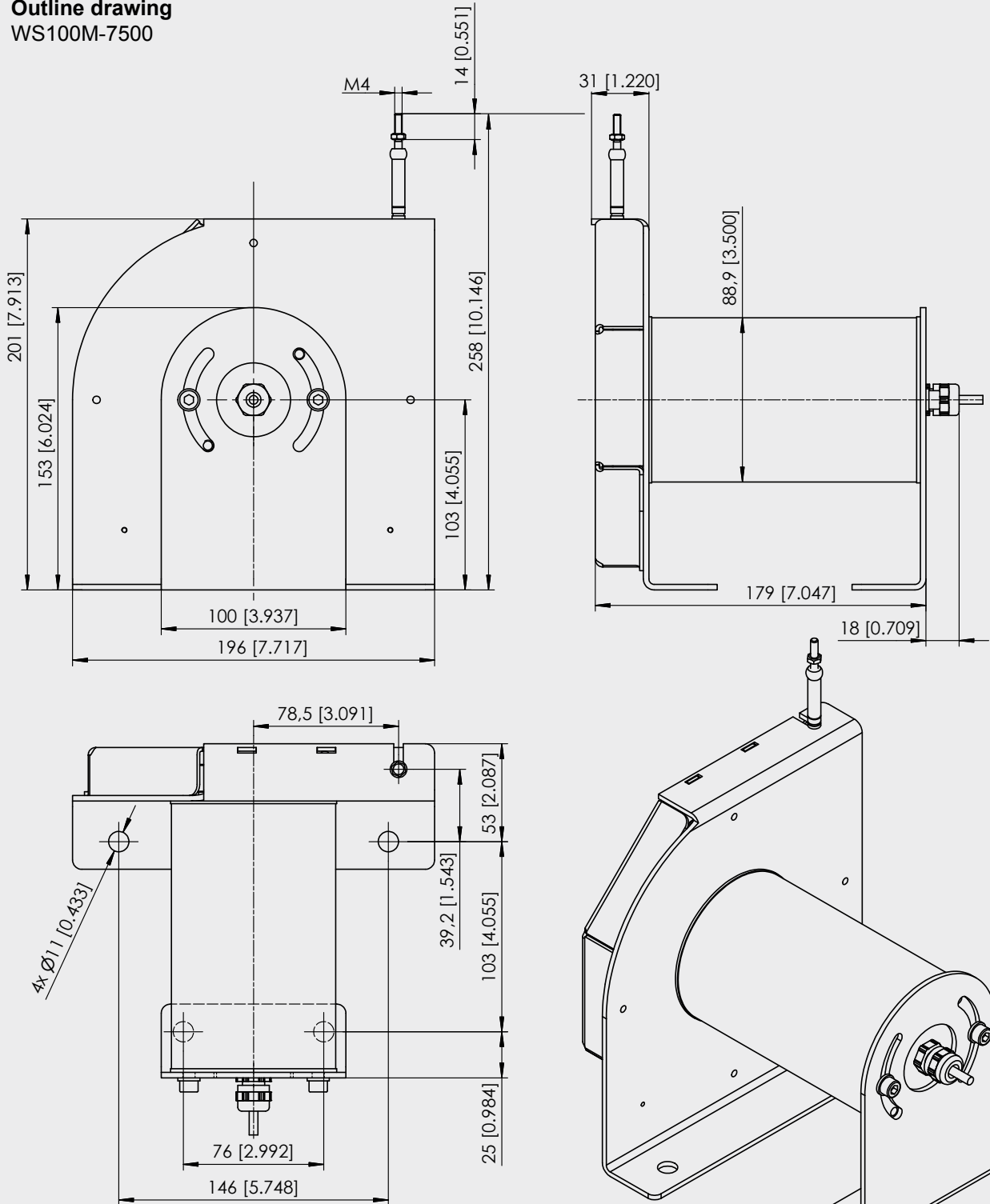
Dimensions informative only.
 For guaranteed dimensions consult factory.



POSIWIRE®
WS100M
Analog Output



Outline drawing
 WS100M-7500



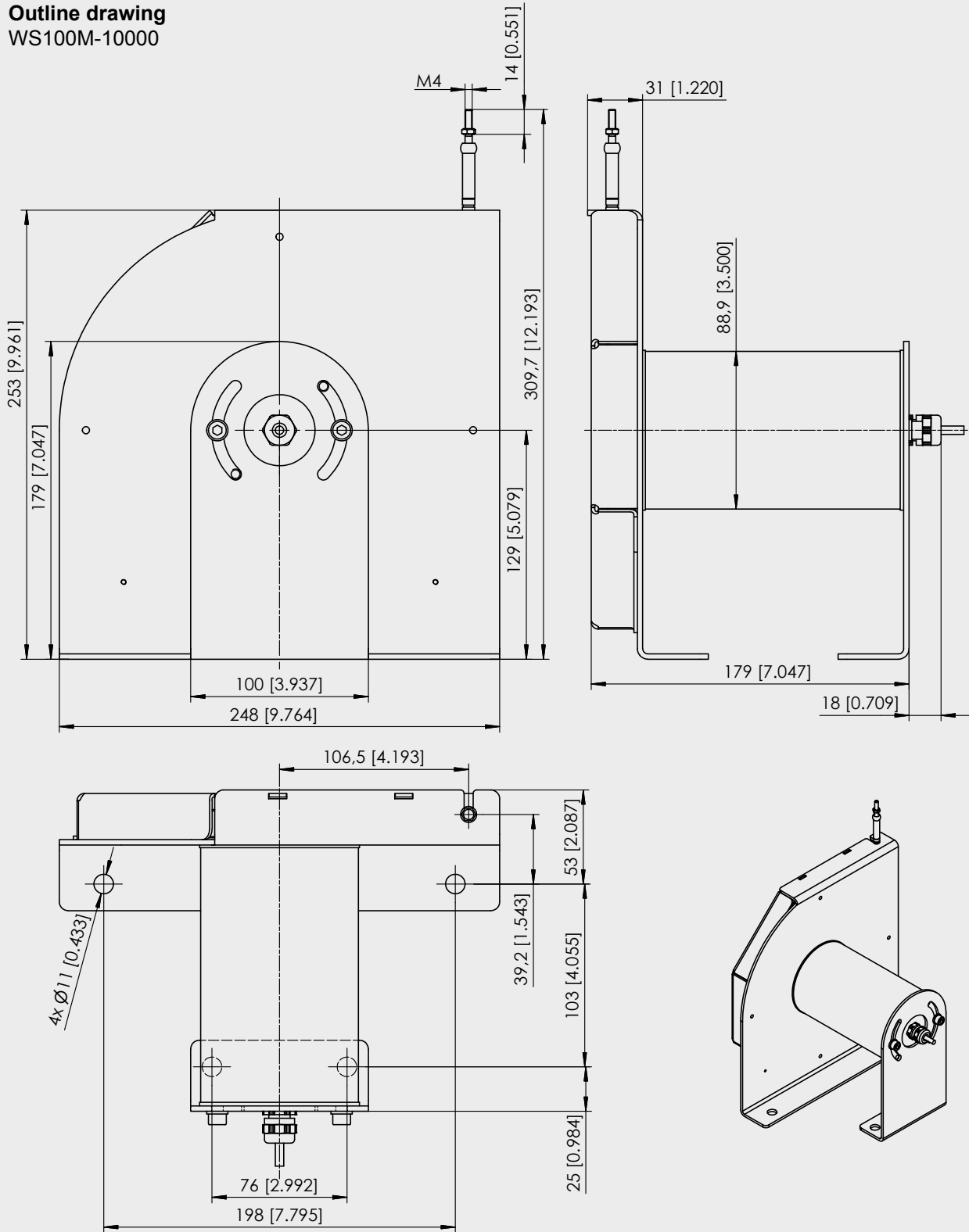
Dimensions in mm [inch]

Dimensions informative only.
 For guaranteed dimensions consult factory.

POSIWIRE®
WS100M
Analog Output



Outline drawing
 WS100M-10000



Dimensions in mm [inch]

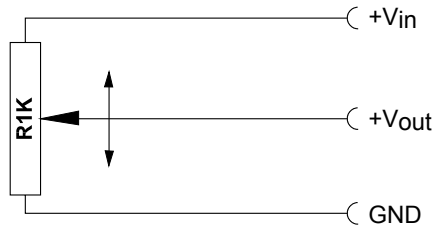
Dimensions informative only.
 For guaranteed dimensions consult factory.

POSIWIRE® R1K and 10V Analog Output

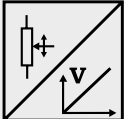


Voltage divider R1K Potentiometer 	Excitation voltage	32 V DC max. at 1 kΩ (max. power 1 W)
	Potentiometer impedance	1 kΩ ±10 %
	Thermal coefficient	±14 x 10 ⁻⁶ / °F f.s.
	Sensitivity	Depends on the measuring range, individual sensitivity of the sensor is specified on the label
	Voltage divider utilization range	Approx. 3 % ... 97 %
	Operating temperature	-4 ... +185 °F

Output signals



Note: The Potentiometer must be connected as a voltage divider. The input impedance of the following processing circuit should be 10 MΩ min.

Signal conditioner 10V and 10V5 Voltage output 	Excitation voltage	18 ... 27 V DC non stabilized
	Excitation current	20 mA max.
	Output voltage	10V: 0 ... 10 V DC; 10V5: 0.5 ... 10 V DC
	Output current	2 mA max.
	Output load	> 5 kΩ
	Stability (temperature)	±28 x 10 ⁻⁶ / °F f.s.
	Protection	Reverse polarity, short circuit
	Output noise	0.5 mV _{RMS}
	Operating temperature	-4 ... +185 °F
EMC	According EN 61326:2006	

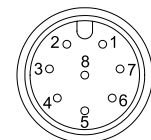
Output signals



Signal wiring	Signal name R1K	10V	Cable color	Connector pin no.
	+Vin	Excitation + +	White	1
	GND	Excitation GND	Brown	2
	+Vout	Signal +	Green	3
		Signal GND	Yellow	4

Connection

View to sensor connector



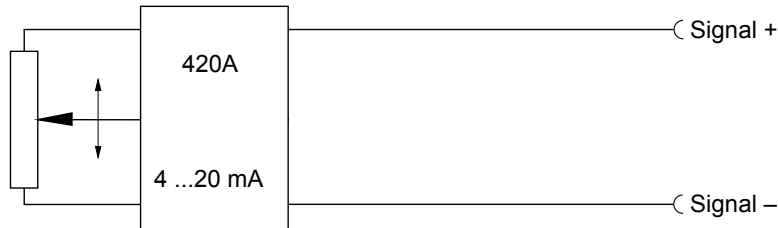
CONN-M12-8F

POSIWIRE® 420A and 420T Analog Output



Signal conditioner 420A Current output (2 wire) 	Excitation voltage	12 ... 27 V DC non stabilized, measured at the sensor terminals
	Excitation current	35 mA max.
	Output current	4 ... 20 mA equivalent for 0 ... 100 % range
	Stability (temperature)	$\pm 56 \times 10^{-6} / ^\circ\text{F}$ f.s.
	Protection	Reversed polarity, short circuit
	Output noise	0.5 mV _{RMS}
	Operating temperature	-4 ... +185 °F
	EMC	According to EN 61326:2006

Output signals



Signal conditioner 420T Current output (3 wire) 	Excitation voltage	18 ... 27 V DC non stabilized
	Excitation current	40 mA max.
	Load resistor	350 Ω max.
	Output current	4 ... 20 mA equivalent for 0 ... 100 % range
	Stability (temperature)	$\pm 28 \times 10^{-6} / ^\circ\text{F}$ f.s.
	Protection	Reverse polarity, short circuit
	Output noise	0.5 mV _{RMS}
	Operating temperature	-4 ... +185 °F
	EMC	According to EN 61326:2006

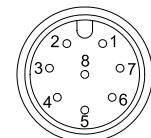
Output signals



Signal wiring	Signal name		Cable color	Connector pin no.
	420A	420T		
Signal +		Excitation +	White	1
Signal -		Excitation GND	Brown	2
		Signal +	Green	3

Connection

View to sensor
connector



CONN-M12-8F