

Fenac Draw-Wire Sensor

Length up to 6000 mm



FNC W80 Series



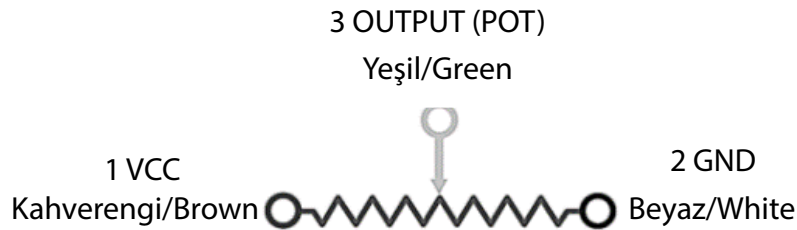
Features

- Measurement length up to 6000 mm
- Robust aluminum housing
- Very compact design
- Protection to IP54
- Wire-actuated mechanism for all rotary encoders with 58mm servo flange and different signal outputs
- Drum circumference is 200 mm
- Linearity is $\sim \pm 0,35 \%$

Technical data

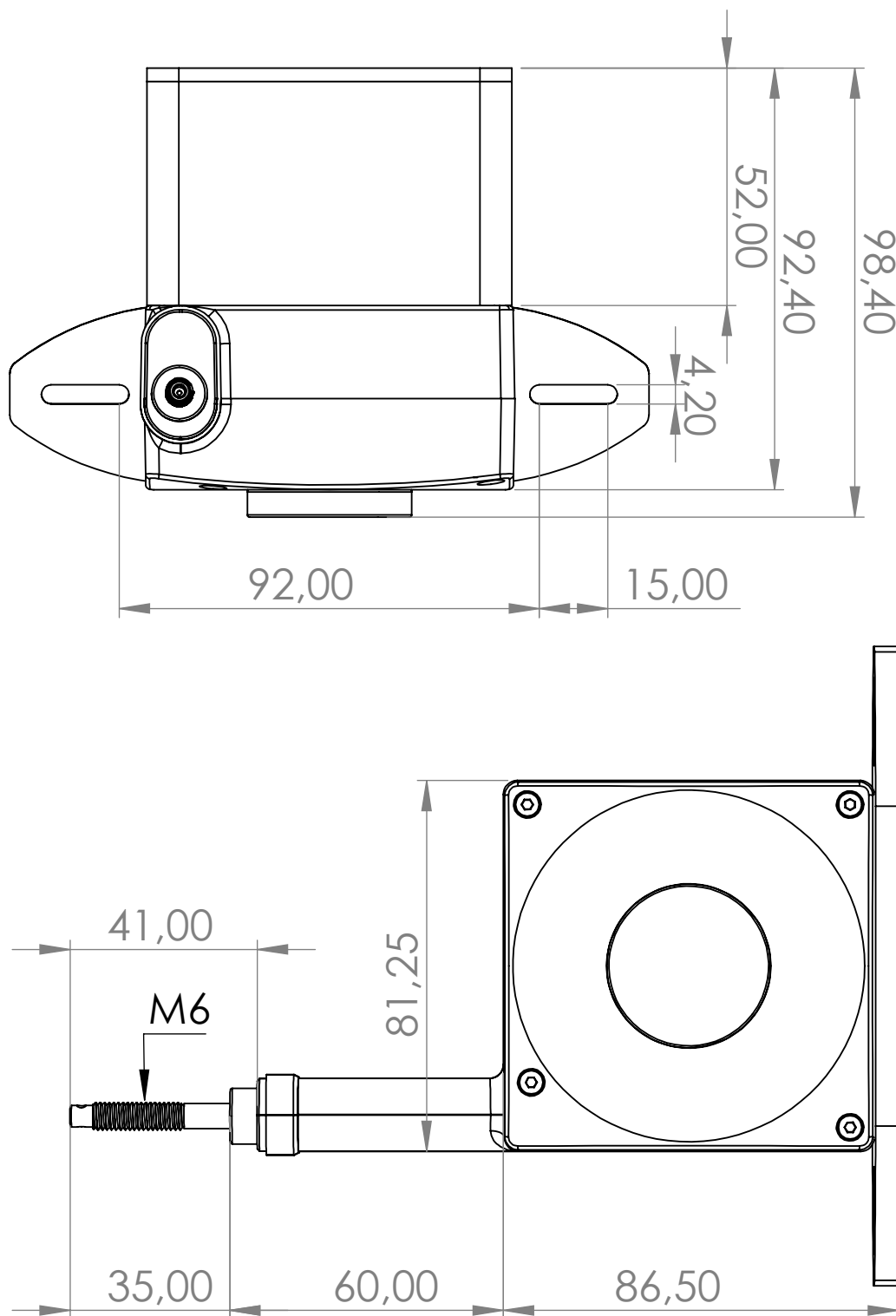
Material	Housing: aluminum Wire: 7x7 pvc coated 304 stainless steel	Drum circumference	200 mm
Wire length	1000,1500, 2000, 3000 ,4000 ,5000 mm	Drum width	18 mm
Output Signal Mode	Resistance (Potentiometer)	Drum wire winding number	Max.22
Resolution	Essentially infinite	Wire dimensions (Thickness x Width)	0.25 x 10 mm
Linearity	$\pm 0.25\%$	Repeatability	$\pm 0.05\%$ FS
Output Resistance	FS; 5K ohm $\pm 5\%$ FS	Protection class	IP54
Power Rating (watts)	[2W at 70°C]	Temperature range	20 ... +80°C
Recommended Input Voltage	30V (AC/DC) max., best voltage at 5 ~ 10 VAC/VDC	Approval	CE
Wire diameter	0.8 mm	Vibration	2000 Hz/ 15 g
Wire retraction	6 - 7.5 N		

Electircal data



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Mechanical dimensions



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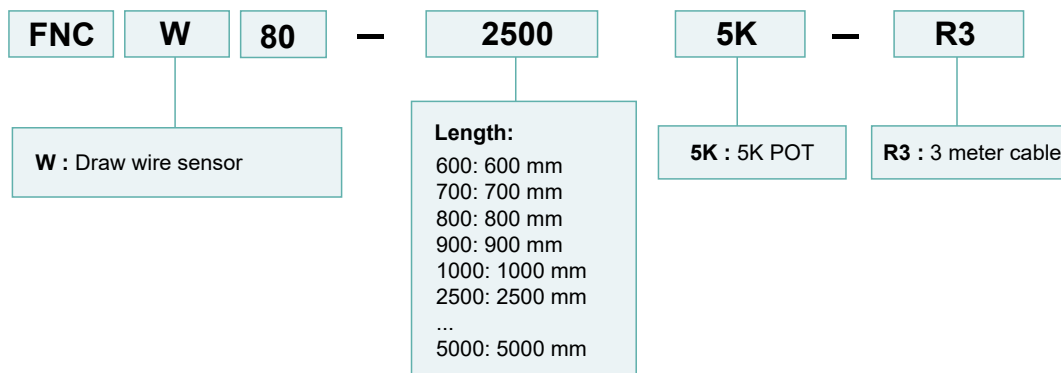
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Draw Wire Units Comparison Table

Specifications	W55 Series	W80 Series	W100 Series	W100 PRO Series	W115 Series	W115 PRO Series	W120 Series
Wire Length	0 - 3,000 mm	0-5,000 mm	0 - 10,000 mm	0 - 12,000 mm	0 - 13,500 mm	0 - 13,500 mm	0 - 20,000 mm
Wire Diameter	0.5 mm	0,8 mm	1 mm	1 mm	1 mm	1 mm	1 mm
Spring Return Force	3.5 - 5 N ¹⁾	6 -7.5 N ¹⁾	4 - 5 N ¹⁾	7 - 10 N ¹⁾	4 - 5 N ¹⁾	6 - 8.5 N ¹⁾	7 - 9 N ¹⁾
Drum Circumference	125 mm	200 mm	250 mm	250 mm	300 mm	300 mm	350 mm
Drum Width	10 mm	18 mm	18 mm	40 mm	18 mm	26 mm	30 mm
Drum Wire Winding Number	Max. 20	Max. 22	Max. 18	Max. 40	Max. 18	Max. 26	Max. 30
Wire Dimensions (Thickness x Width)	0.15 x 10 mm	0.25 x 10 mm	0.25x 12 mm	0.2 x 20 mm	0.3 x 12 mm	0.3 x 18 mm	0.2 x 20 mm

These values were measured at an ambient temperature of 25 °C. There may be variations at other temperatures.

Part number



** Please order the encoder separately.

** This code table can only be used for the selection of the wire unit.