

RH0510

Hall Effect rotary

The RH0510 Hall Effect rotary sensor provides accurate and reliable rotary measurement in extreme industrial and automotive applications. Available in measurement ranges of 45° and 90° of electrical angle, the sensor is ideal for applications such as valve position indication in industrial applications to throttle and steering angle measurement in high dither/vibration automotive applications. With no moving electrical contacts the Hall Effect rotary sensor offers virtually limitless operational life.

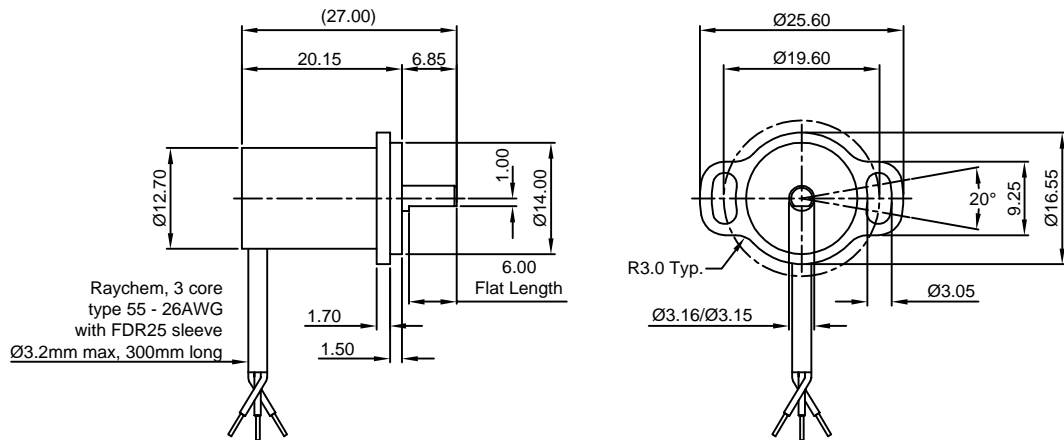
The sensor is constructed from stainless steel and aluminium and utilises high-grade ball-race shaft bearings (as opposed to low-grade plastic with no shaft bearings offered by other manufacturers). The RH0510 is built for precision and accuracy. The sensor is also fitted with Raychem fire and chemical resistant cabling for extreme environmental conditions. Every RH0510 sensor is heat cycled prior to final calibration to ensure survival when operated at elevated temperatures.

Other models in this range

- RH0520 - Miniature servo mount
- RH0910 - Servo mount
- RH0920 - Servo mount dual output
- RH5210 - Sprung shaft
- RH5220 - Round shaft
- RH5230 - Blade shaft
- RH5240 - Dual output
- RH5310 - Triangular flange
- RH5340 - Triangular flange, dual output



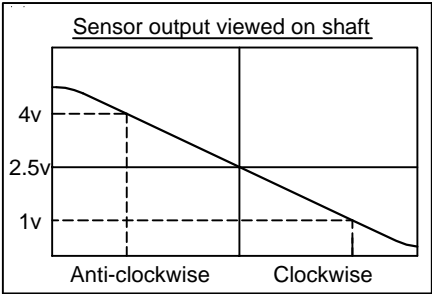
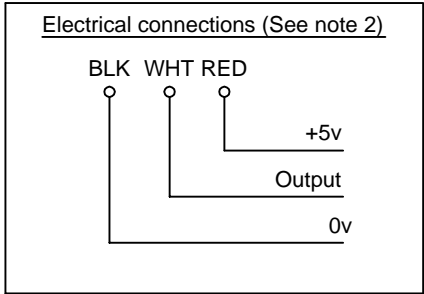
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Electrical & Mechanical Information

Electrical angle	±22.5° (45)	±45° (90)	Degrees
Typical output	1.00 to 4.00		Volts
Sensitivity	(±2.3)	66.6	mV/Deg
Independent linearity	±1.0		%
Supply voltage	5 ±5%		Volts
Power consumption	<50		mW
Minimum output load	1000		Ohms
Temp coefficient of output voltage	<±200		ppm of span/°C
Operating temp. range	-30° to +85°		°C
Mechanical travel	Continuous		
Sealing	IP50		
Shaft starting torque	<10		gf-cm
Weight. (approx.)	20		grams

Note1: When shaft flat is facing cable exit, instrument is mid-travel. Note2: Incorrect wiring may cause internal damage.



Ordering Information

RH0510-0XX

Electrical angle in degrees