

RP0921

Rotary Potentiometer

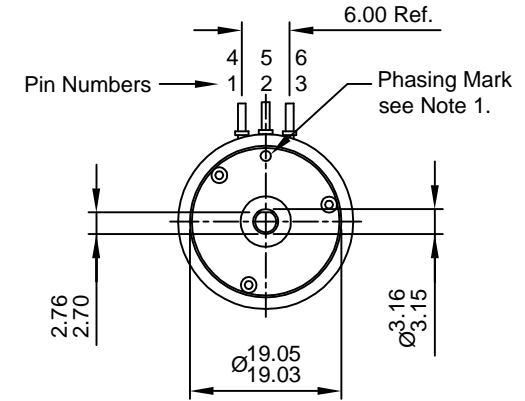
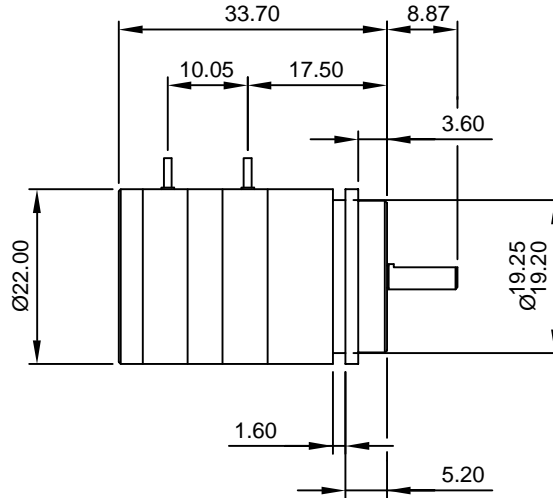
The RP09 is a high performance rotary potentiometer sensor designed for the most demanding control and measurement systems. They are used extensively in motorsport for throttle and gearbox control, steering angle measurement and the monitoring systems of the chassis and also industrial applications such as valve position feedback.

The sensor has a stainless steel operating shaft set within 'twin' stainless steel ball-race bearings.

Models available have a choice of mounting and shaft options and electrical angles up to 350°.

Other models in this range

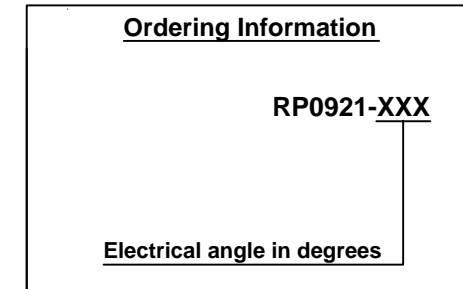
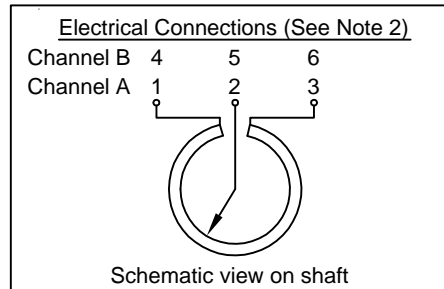
- RP0911 - Servo mount (single)
- RP0931 - Servo mount (triplex)
- RP0912 - Triangular flange (single)
- RP0922 - Triangular flange (duplex)
- RP0932 - Triangular flange (triplex)
- RP0913 - Flange mount (single)
- RP0923 - Flange mount (duplex)
- RP0933 - Flange mount (triplex)



Electrical & Mechanical Information (all channels)

| | | | | |
|------------------------------------|--------|---|--------|--------|
| Electrical angle | 350° | 130° | 100° | |
| Resistance (Typical) | 3 | 1 | 1 | K ohms |
| Non-linearity | <±0.30 | <±0.50 | <±0.50 | % |
| Applied voltage | <42 | <20 | <15 | Volts |
| Phasing (channel to channel) | | 0.5 | | % |
| Maximum wiper current | | 1 | | mA |
| Mechanical travel | | 360° continuous | | |
| Insulation resistance (at 500V dc) | | >100 | | M ohms |
| Operating temp. range | | -55° to +125° | | °C |
| Sealing | | IP50 | | |
| Weight (approx.) | | 20 | | grams |
| Case material | | Aluminium 6262 | | |
| Shaft material | | Stainless Steel 303 series | | |
| Shaft bearing | | AISI 440c Martensitic Stainless Steel (NMB DDRIF-418ZZ) | | |

Note 1: When shaft flat is facing phasing mark, instrument is mid-travel. Note 2: Incorrect wiring may cause internal damage. Circuit recommendation: Due to the presence of a high contact resistance, these potentiometers should be used as voltage dividers only. Operation with wiper circuits of low impedance will degrade the output signal.



Active
sensors

sales@activesensors.com