

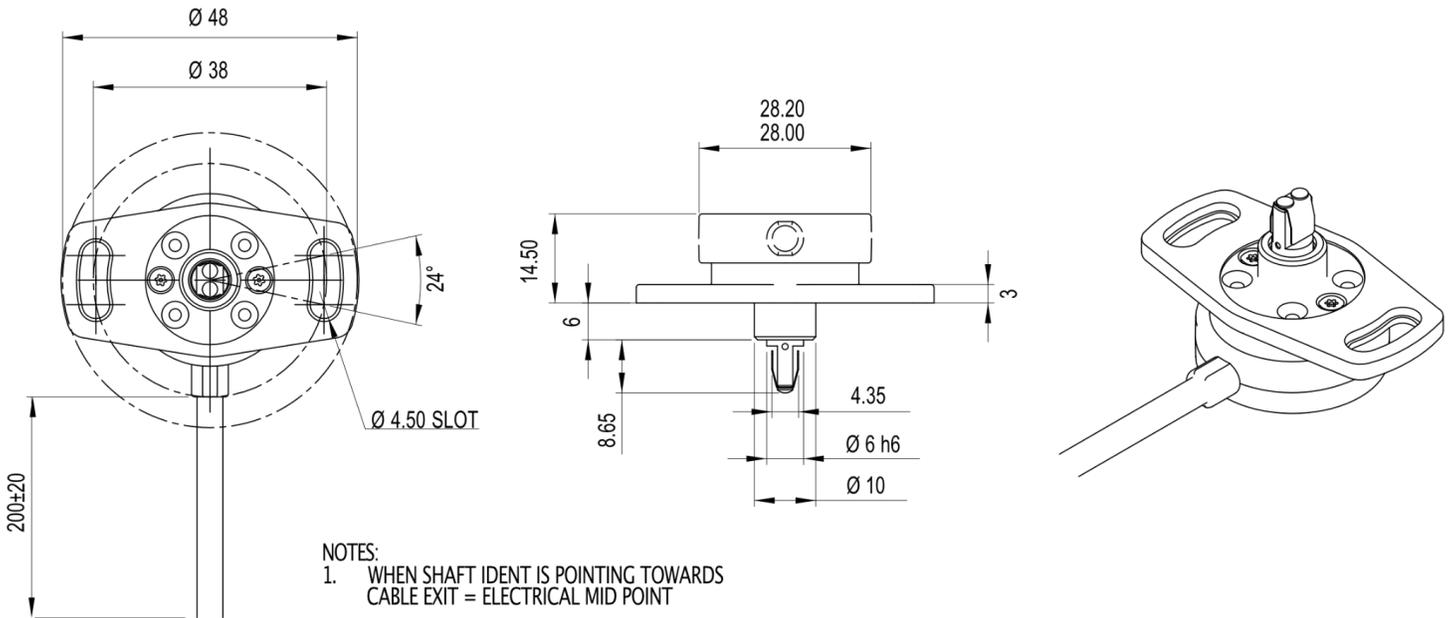
Engineered for the extreme demands of professional motorsport, the XVIA RPS Rotary Position Sensor delivers high-precision, contactless position feedback in a rugged, race-proven package. Featuring a spring-coupled mounting shaft, dual-redundant outputs, and IP68-rated sealing, this sensor is built to withstand the harshest racing environments—including high shock, vibration, and exposure to fluids.

Optimized for suspension position monitoring, the RPS sensor ensures repeatable accuracy, low-latency response, and high duty cycle endurance. Each unit is terminated with an autosport connector, offering superior reliability and simplified integration into high-performance vehicle electronics. Designed for elite race teams and serious competitors, the XVIA RPS sensor delivers the precision data you need to push the limits with confidence.

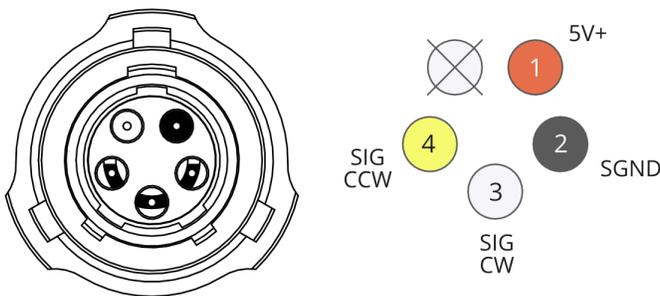
| Specifications | |
|-----------------------|---|
| Mechanical | |
| Typical Life Cycle | > 50 million movements |
| Measuring Range | 120° redundant (Signal 1 CW, Signal 2 CCW) |
| Max Operating Speed | 120 RPM |
| Shaft | Stainless Steel 316 with Spring Coupling |
| Housing | High-temperature resistant polymer |
| Tightening Torque | Max 2Nm |
| Environmental | |
| Operating Temperature | -40°C to +125°C (Short Term 150°C) |
| Vibration Resistance | 20...2000 Hz, Amax = 0.75 mm, amax = 31.4 g (IEC 60068-2-6) |
| IP Rating | IP68 |
| Electrical | |
| Supply Voltage | 5V ± 0.5V DC |
| Output Signal | Ratiometric 5%...95% of supply (±25mV at range endpoints) |
| PWM Frequency | 1000Hz default, 5%–95% duty cycle |
| Linearity | ±0.5% of range |
| Repeatability | ≤0.2% (dependent on mounting) |
| Wiring | Raychem Spec 55, 24 AWG, sleeved with Raychem DR-25 |
| Isolation resistance | 200 MΩ (500 VDC, 1 bar, 2s) |



Dimensions (mm)



Wiring



| Pin # | Label | Function |
|-------|---------|-------------------------------|
| 1 | 5V+ | 5V Sensor Supply |
| 2 | SGND | Sensor Ground |
| 3 | SIG CW | Clockwise Signal (CW) |
| 4 | SIG CCW | Counterclockwise Signal (CCW) |
| 5 | NC | Unused / Not Connected |

View from Mating Connector Wire Side

Mating Connector: ASL106-05SN-HE (Inline) or ASL006-05SN-HE (Flanged)
Shrink Boot: 204W221-25-0 (Straight) or 224W221-25-0 (90°)