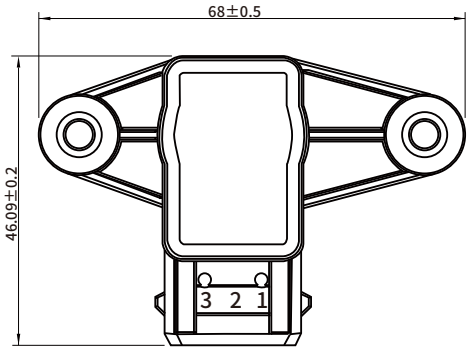
General Specification

Gear position sensor

NO: AS-6001

Dimensions (mm)



Product characteristics

- Non-contact Hall-effect sensing technology.
  Magnetic position detection eliminates mechanical wear and ensures long service life.
- High-precision gear position feedback.
  Accurate detection of selector shaft or internal transmission mechanism position.
- Automotive-grade durability.
  Designed to withstand high temperature, transmission oil exposure, vibration, and mechanical shock.
- Fast response time.
  Real-time signal output for smooth shifting and optimized transmission control.
- Excellent EMI/EMC immunity.
  Stable performance in electrically noisy automotive environments.
- High repeatability and reliability.
  Ensures consistent operation throughout the vehicle lifecycle.

Applications

- Automatic transmission gear position detection (P/R/N/D)
- Transmission range sensing and shift actuator feedback

Product performance characteristics

Parameter	Rating
Power Requirement	DC Input: 5V ±0.03V
Rotation Anglel valve 210°	DC Output:0.49V ~0.51V
Rotation Anglel valve 337.9°	DC Output:4.655V ~4.845V
Rotation Angle error	±2°
Working Current	Max 10mA
Detectable angle range	0°~360°
Maximum withstand voltage	Max 20V
Classification of waterproof	IP68

Please contact sales@xintec.hk for latest product details