

### Key Features

- Zero Speed to 20KHz
  - No Moving Parts
  - High Temperature Operation to 150°C
  - Robust
  - Thermally Stable
  - Compact
- Lightweight

The Speed Sensor uses a dual element hall effect device to detect changing magnetic fields in the presence of a toothed ferrous metal target wheel. Tried and proven in F1 championship gearboxes, it is suitable for either gearbox or wheel speed sensing.

With a robust fully encapsulated construction, unique internal design and sealing method, the sensor may be fully immersed in oil at high temperature without reduction in performance.



### Specification




#### Electrical

Supply Voltage	+5VDC to +20VDC
Supply Current	<10mA
Frequency Response	0 to 20 KHz
Output	Open Collector

#### Connections

Wiring	Raychem Type 55 24AWG with Viton sleeving
Connector	Unterminated

#### Wiring

 Red	Power
 Black	Ground (GND)
 Green/White	Signal

#### Mechanical

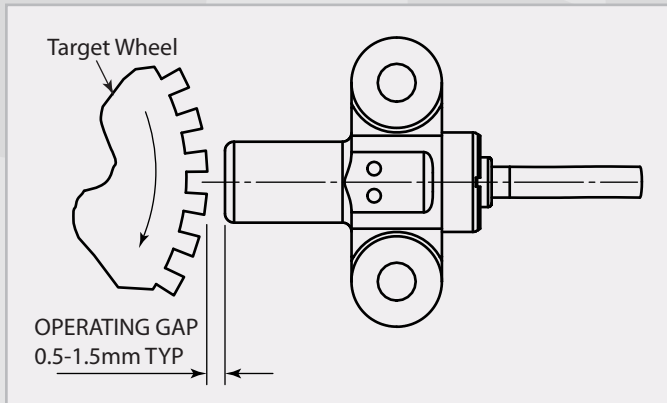
Size	41mm x ø22.25mm
Mounting	M14 x 1.0 Thread (or customer specified)
Weight	from only 25g
Sensor Materials	Aluminium - anodised

#### Environmental

Protection Class	IP68
Operational Temperature	-20°C to +150°C
EMC Immunity Level	SAE J1113/2 1996 design guideline
Vibration	40g per axis (50-2500Hz)
Finish	Anodised to DEF STAN 025
Compatible Medium	Petroleum, Oils, General Automotive Fluids



## Orientation of the Target Wheel



## Dimensions

Gill Speed Sensors can be custom designed to your specifications. A typical example is illustrated below:

