

9mm ZERO SPEED SENSOR HIGH TEMPERATURE 175 °C



Hall Effect sensors give an output when subjected to a changing magnetic field. The field is set up by a magnet inside the sensor body and changes when ferromagnetic teeth are passed beneath the sensor (no magnets are required in the target). This sensor has a single Hall Effect element and is therefore not orientation dependant. The sensor responds to changes in magnetic field strength by corresponding to tooth passing frequencies down to 0Hz. As each tooth passes the sensor, the digital state of the output changes.

Please request our installation datasheet for further details.

Electrical

- Supply voltage 9V to 15V unregulated
- Supply current 1.5 to 6mA
- Open collector output
- Output current 25mA maximum
- Frequency response 0Hz to 15kHz
- Output polarity is low in the presence of a tooth

Cable and Connection Definition

- 22 AWG un-screened cable
- Cable length is shown on the order details but any length is available on request
- Various automotive and military standard connectors are available
- Connection

Red wire	Pin A	Pin 1	Supply
Green wire	Pin B	Pin 2	Signal
White wire	Pin C	Pin 3	Ground

Application

- Wheel speed

Mechanical

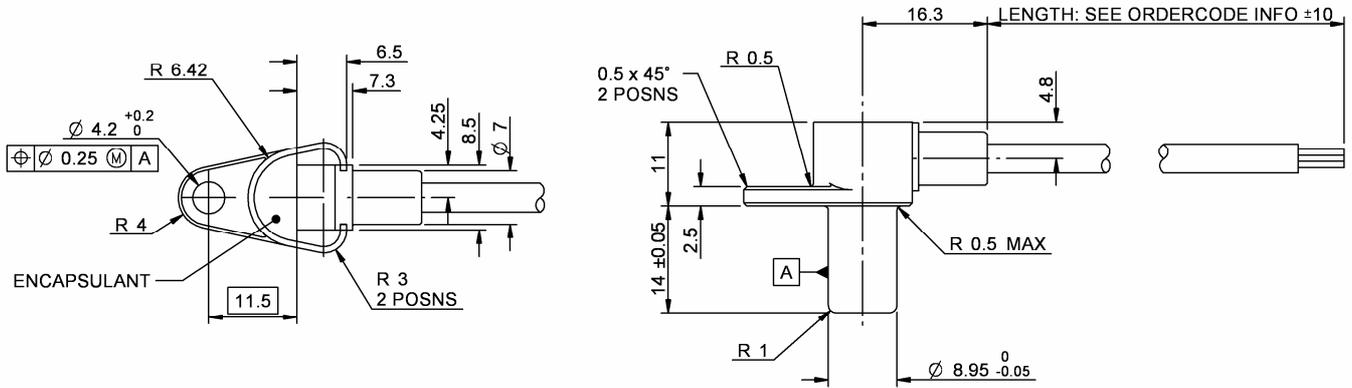
- Air gap 1.0mm maximum (0.8mm recommended)
- Body diameter 9mm
- Weight less than 50g (including cable)
- Polyester cable boss for strain relief to the sensor body

Design and manufacture is in-house, so if our existing designs do not suit your application, we can provide cost effective customised parts to suit even the most demanding application. No engineering charges are made for simple modifications such as customer specific connectors, cable protection and cable lengths. Please contact our technical consultancy service who will be pleased to help.

Environmental

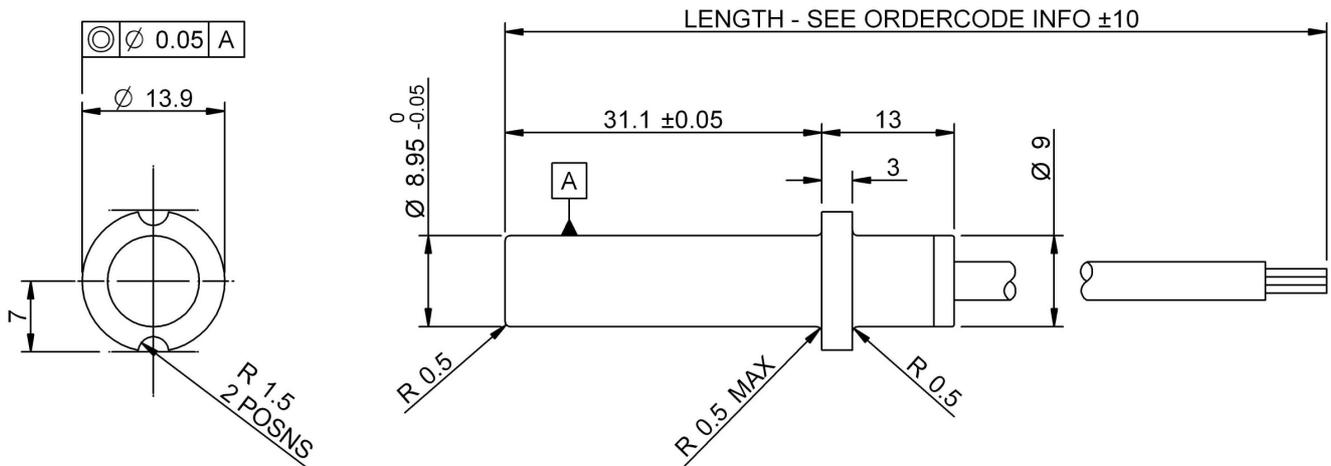
- Vibration 50 to 2500Hz @ 40g 8hrs per axis
- Resistant to standard motorsport fluids
- Maximum humidity 100%
- Operating temperature -10 to +175 °C
- Aluminium alloy body, hard anodised and dyed black

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Cable Length
1000mm

Order Code
O 030 350 008 003



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19/06/07