0166 • 0167 DIGISPEC PROXIMITY/ZERO SPEED HF SENSOR SIGNLE OUTPUT, FERROUS TARGET/GEAR ACTUATED 3/8, M10

PRODUCT DESCRIPTION

SPECTEC's Zero Speed sensors are designed to switch in the presence of ferrous targets such as gear teeth, blade tips, ect. Gear teeth as small as module 0.5 or 48 DP can be sensed.

The standard output is NPN Supply Tracking 0-Vs, provided from a 3k Ohm internal pull-up resistor to a collector, which can sink 25 mA. The output is normally high with no target present. Other output signal options are available; please see Page 2 for details.

For intrinsically safe versions refer to bulletin: IS170 & IS171.

SPECIFICATIONS

Orientation: Single: No orientation required.

Differential: The alignment mark must be in line with the rotation of the

gear

Vs, Supply Voltage: 4.0 to 30 Vdc $@ \le 18 \text{ mA}$

4.0 to 27 Vdc @ ≤ 30 mA

4.0 to 24 Vdc @ ≤ 24 mA (Differential)

Reverse Polarity Protected

Vo, Signal Out: Output signal is typically 'Normally

High' except for PNP output which is

'Normally Low'

Operating Freq.: 0 to ~20 kHz (Standard)

~15 Hz to ~30 kHZ (Differential)

Air Gap: 24 DP / Module 1: .050" (1.3mm)

12 DP / Module 2: .080" (2.0mm) 5 DP / Module 5: .160" (4.0mm)

Magnetization: Standard: ~1500 Gauss

Low Mag: ~500 Gauss

Rise/Fall Time: 0.10 μ s to 2 μ s

*Dependent on Configuration

Temperature Range: 2TE: -40° to 221°F (-40° to 105°C)

*May be reduced based on options selected 3TE: -40° to 300°F (-40° to 150°C) *May be reduced based on options selected

Construction: 300 Series S.S. Housing & Face

Solid Epoxy Encapsulation

Connectors & See Page 2

Pin Assignments: All have Gold Plated Pin Contacts

Lead Wires & 2TE: PVC 22-24 AWG (105°C)
Assignments: 3TE: TFE 22 AWG (150°C)

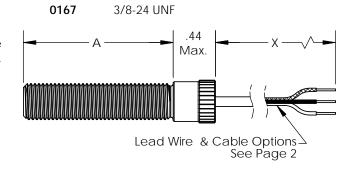
Red: Supply (+)
Black: Common (-)
White/Green: Signal

Bare: Cable Shielding

CE-Compliance: EN55011, EN50082-2

OPTIONS

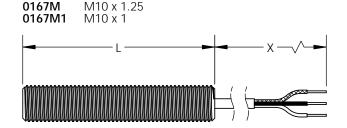
Custom configurations, thread sizes including metric, special, materials of construction, special output circuits including short circuit protection, and temperature probe (NT10, RTD100, or others). Please contact sales.

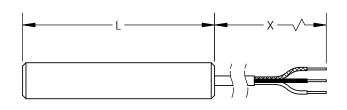


3/8-24 UNF

0167A

01678





Ø3/8" (9.5 mm) Smooth Shell

