PRODUCT DESCRIPTION

SPECTEC's Proximity/Zero Speed position sensors are designed to switch in the presence of a low magnetic field. Bi-polar (north and south polar activation) is standard. Uni-polar and Omni-polar activation is also available for higher pulse resolution. Various output options are available and provided to suit all interface requirements.

For intrinsically safe versions refer to bulletins: IS160 IS161.

SPECIFICATIONS

Vs, Supply Voltage $4.0 \text{ to } 30 \text{ VDC at } \le 18 \text{ mA}$

Reverse Polarity Protected

Vo, Signal Out: Output signal is typically 'Normally

High' except for PNP output which is

'Normally Low'

Operating Freq.: Standard: 0 to ~20 kHz

(for precision position applications)

High Speed: 0 to ~100 kHz

(for high speed only)

Air Gap: ≤ .160" Typically

≤ 1" using extra strong 5K Gauss mags

Rise/Fall Time: 0.10 µs to 2 µs

*Dependent on configuration

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

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

*May be reduced based on configuration

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 (-)

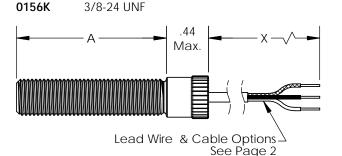
White/Green: Signal

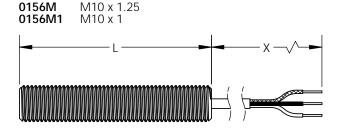
Bare: Cable Shielding

CE-Compliance: EN55011, EN50082-2

OPTIONS

Custom configurations, special materials of construction, temperature probes (NTC10, RTD100, or others) are also available positioned near the face or the sensor.





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