DIGISPEC PROXIMITY SPEED H SENSOR SINGLE OUTPUT, MAGNET ACTUATED 1/4, 5/16, M6, M8

CE

## PRODUCT DESCRIPTION

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

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.

## **SPECIFICATIONS**

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

No Reverse Polarity Protection

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 of 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

**Transmit Distance**: 1500' (~500m) max.

**Construction**: 300 Series Stainless Steel Housing

Solid Encapsulation Epoxy sealed sensing tip

Connectors & See Page 2

Pin Assignments: All have gold plated contacts

Lead Wire2TE: PVC26-28 AWG (105°C)Assignments:3TE: TFE26-28 AWG (150°C)

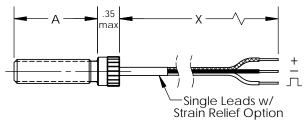
Red: Supply (+)
Black: Common (-)
White/Green: Signal Out
Bare: Cable Shielding

CE-Compliance: EN55011, EN50082-2

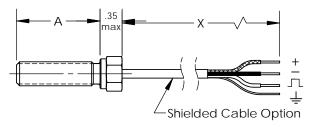
## **OPTIONS**

Custom configurations, thread sizes (including metric), special materials of construction, special output circuits (including short circuit protection), temperature probes (NTC10, RTD100, or others) are also available positioned near the face of the sensor.

**0155K** 1/4-40 UNS **0155KB** 1/4-28 UNF **0155KM** M6 x 0.75



**0155H** 1/4-40 UNS **0155HB** 1/4-28 UNF **0155HB** M6 x 0.75



 0155A
 1/4-40 UNS

 0155AB
 1/4-28 UNF

 0155AM
 M6 x 0.75

 0155AM8
 M8x 1.0

