

0158 DIGISPEC PROXIMITY/ZERO SPEED H SENSOR SINGLE AND DUAL OUTPUT MAGNET ACTUATED 1/2, M12

## **PRODUCT DESCRIPTION**

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

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.

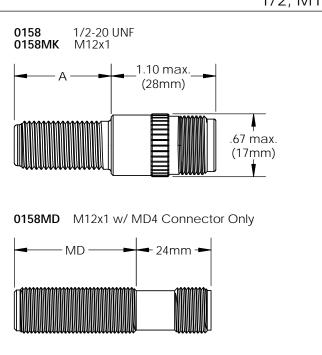
For intrinsically safe versions refer to bulletins: IS160 & IS161.

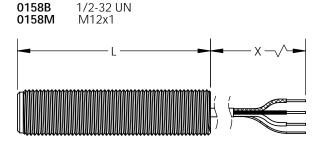
## SPECIFICATIONS

Orientation:	Single: No orientation required. Dual: For directional applications, the alignment mark must be in line with the rotation of the target. For synchronous output, the alignment mark should be at a right angle to the rotation of the target.
Vs, Supply Voltage	4.0 to 30 VDC at ≤ 18 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 302°F (-40° to 150°C) *May be reduced based on configuration
Construction	300 Series S.S. Housing & Face Solid Epoxy Encapsulation
Connectors & Pin Assignments:	See Page 2 All have Gold Plated Contacts
Lead Wires & Assignments:	See Page 2 for Configurations 2TE: PVC 22-24 AWG (105°C) 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.

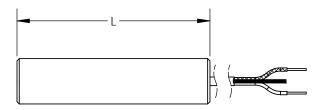




0158S Ø1/2" (12.7mm) Smooth Shell

1/2-20 UNF

0158A



0158X 1/2-20 UNF w/ 1/2-14 NPT

