

PRODUCT DESCRIPTION

SPECTEC's gear actuated Zero Speed/Position Sensors are designed to switch in the presence of ferrous targets such as gear teeth and blade tips etc. Gear teeth as small as module 0.5 or 48 DP can be sensed.

CE

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 to 30 VDC at ≤ 18 mA No Reverse Polarity Protection
Vo, Signal Out:	Output signal is typically 'Normally High', except for PNP output which Is 'Normally Low'
Operating Freq.:	0 to ~20 kHz
Air Gap:	24 DP / Module 1: .040" (1.0mm) 12 DP / Module 2: .060" (1.5mm) 5 DP / Module 5: .120" (3.0mm)
Magnetization:	Standard: ~1500 Gauss Low Mag: ~500 Gauss
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
Transmit Distance:	1500' (~500m) max.
Construction:	300 Series Stainless Steel Housing Solid Encapsulation
Connectors & Pin Assignments:	See Page 2 All have gold plated contacts
Lead Wire Assignments:	2TE: PVC26-28 AWG (105°C)3TE: TFE26-28 AWG (150°C)Red:Supply (+)Black:Common (-)White/Green:Signal OutBare: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 probes (NTC10, RTD100, or others positioned near the face of the sensor) are also available.



