

0168 DIGISPEC PROXIMITY/ZERO SPEED HF SENSOR SINGLE & DUAL OUTPUT FERROUS TARGET/GEAR ACTUATED 1/2, M12

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. Standard output is NPN supply tracking 0-Vs, provided from a 3k-Ohm internal pull-up resistor to a collector, which can sink 25mA.

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

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. Differential: The alignment mark must be in line with the rotation of the gear.
Vs, Supply Voltage:	4.0 to 30 Vdc $@ \le 18$ mA 4.0 to 24 Vdc $@ \le 24$ mA (Differential) Reverse Polarity Protected
Vo, Signal Out:	See Page 2
Operating Freq.:	0 to ~20 kHz (Standard & Dual) ~15 Hz to ~ 30 kHz (Differential)
Air Gap:	24 DP / Module 1: .050" (1.3mm) 12 DP / Module 2: .070" (1.8mm) 5 DP / Module 5: .140" (3.6mm)
Magnetization	Standard:~1500 GaussLow 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 302°F (-40° to 150°C) *May be reduced based on configuration
Construction:	300 Series Stainless Steel Housing Solid Encapsulation
Connectors & Pin Assignments:	See Page 2 for Configurations All have Gold Plated Contacts
Lead Wire & Assignments:	See Page 2 for Wire & Cable Options2TE: PVC22-24 AWG (105°C)3TE: TFE22 AWG (150°C)Red:Supply (+)Black:Common (-)White:Signal AGreen:Signal B (dual sensor only)Bare:Shield
CE-Compliance:	EN55011, EN50082-2

CE-Compliance:

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.



