

SPECTEC

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0094
 DIGISPEC MAGNETIC SPEED SENSOR
 3/4, M18

PRODUCT DESCRIPTION

SPECTEC's DIGISPEC Magnetic pickups produce a digital frequency output proportional to speed. The internal amplifier provides for constant pulse shaping, signal amplitude, logic-level output, robust signal-to-noise ratio, usable at lower RPMs and greater air gap between the sensor and the actuator. All models are also available with an internal temperature probe.

For hazardous location Class 1 Division 1 please refer to IS90 & IS91, or Class 1 Division 2 please refer to N90 & N91.

SPECIFICATIONS

Vs, Supply Voltage: 7.5(12) to 30 VDC regulated
 4.5 to 7.5 VDC, unregulated

Is, Supply Current: ≤ 20 mA @ 30 VDC (Max.)

Vo, Signal Out: See page 2

Input Sensitivity: 30, 12, or 5 mVpp

Operating Freq.: ≤ 3 to 10 kHz
 ≤ 40 kHz at increased signal level, varies with target size, distance and pickup sensitivity. (Options: ≤ 100 kHz)

Rise/Fall Time: 0.04 μs / 0.16 μs

Temperature Range: 2TE: -40° to 248°F (-40° to 120°C)
 3TE: -49° to 284°F (-45° to 140°C)

Magnetization: Standard: ≥ 900 Gauss, TYP.
 Low Mag: 250 Gauss, TYP. See Pg. 2 Note

Pole Piece: Flush (FP), Extended (EP), & Chisel Points (CP)
 (Chisel to be oriented parallel with gear tooth.)

Gear Pitch	Pole Type
≤36 DP (MODULE 0.7)	EP62, CP10
≤26 DP (MODULE 0.98)	EP93
≤24 DP (MODULE 1.06)	FP130, FPS130 EP106, EPS106 EP125, CP45
≤12 DP (MODULE 2.11)	EP187
≤5 DP (MODULE 5.1)	EP250

Connectors: See Page 2 for Configurations
 All have Gold Plated Contacts

Lead Wire & Assignments: See Page 2 for Wire & Cable Options

2TE: PVC, 20-24 AWG
 3TE: TFE, 20 AWG
 Red: Supply (+)
 Black: Common (-)
 White or Green: Signal Out
 Bare: Cable Shield

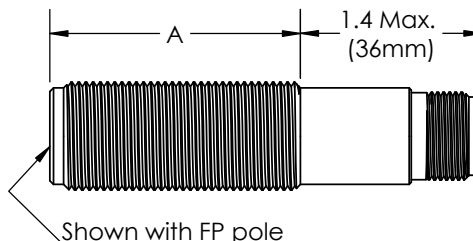
Construction: 300 Series stainless steel housing
 Solid epoxy encapsulation

CE-Compliance: EN55011, EN50082-2

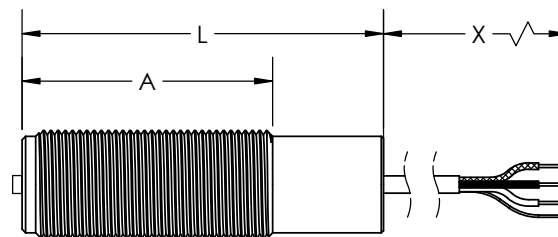
OPTIONS

Custom configurations, thread sizes, special materials of construction, temperature probes (NTC10, RTD100, or others).

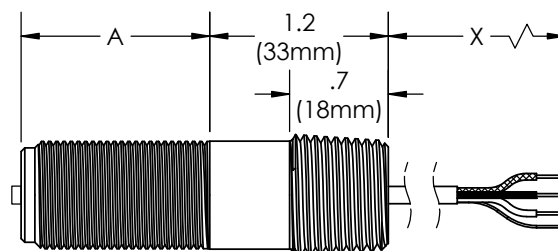
0094 3/4-16 UNF
0094B 3/4-20 UNEF
0094M M18x1.5
0094M1 M18x1.0



0094L 3/4-16 UNF
0094LB 3/4-20 UNEF
0094LM M18x1.5
0094LM1 M18x1.0



0094X 3/4-16 UNF w/ 1/2-14 NPT Male
0094XB 3/4-20 UNEF w/ 1/2-14 NPT Male



0094Y 3/4-16 UNF w/ 1/2-14 NPT Female
0094YB 3/4-20 UNEF w/ 1/2-14 NPT Female

