

PRODUCT DESCRIPTION

Spectec's Linear Position Sensor is designed to sense continuous variations in magnetic field and convert field strength to a proportional voltage. The output voltage produced for zero field is nominally 2.5v, with a standard transfer function of +/-10mV/Gauss. Magnetic sensitivity is in one axis only. Several units can be combined to measure (X, Y, Z) magnet field vectors. Custom ranges, output configuration, sensitivity, and packaging are available on request. Sensors can also be supplied to Intrinsically Safe standards.

APPLICATIONS

Position Sensing, Rotation, Angle, Field profiling, ELF, Vibration, Proximity, Incoming inspection of magnetic products.

SPECIFICATIONS

Vs Supply Voltage: 8 – 30 VDC @ ≤ 5 mA

Vo Output Range: <.5 – Vo -> 4.5 V
 (.06 – 4.95 V typ)

Input Sensitivity*: 10 mv / Gauss
 (2.5 mv, 5.0 mv on request)

Electrical Offset*: +/- .3V
 (2.20 to 2.80 V at zero field)
 +/- 30 G equivalent

Frequency Range*: DC to 30 kHz

Sensing Distance: .00" to > 1.00"
 @ 3000 Gauss Typ.

Environmental Temp. Range: -40° to +250° F
 (-40° to +125° C)

Construction: 300 Series Stainless Steel
 Solid Encapsulation

T Threads:

Standard: 5/8-18 UNF or 3/4-20 UNEF

Options: M18x1.5

LW Lead Wires,

Shielded Cable: PVC 24 AWG

Option: TFE 24 AWG

RED: Supply Voltage

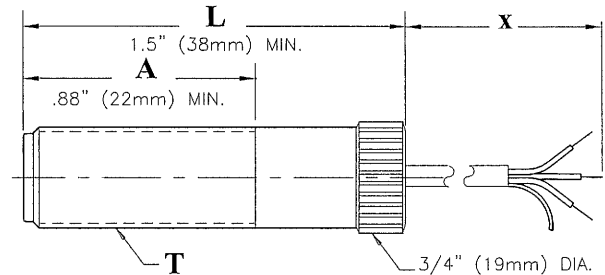
BLACK: Common

WHITE (GREEN): Signal Out

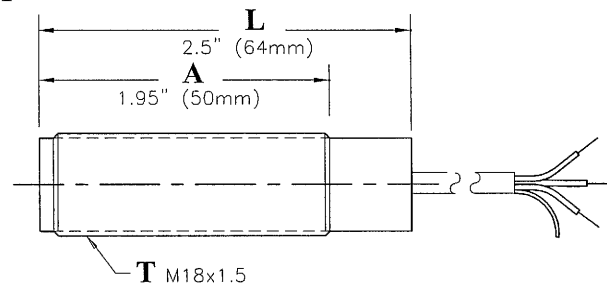
Shield : Floating, (Not connected to shell)

Compliance: CE: EN55011, EN50022-2

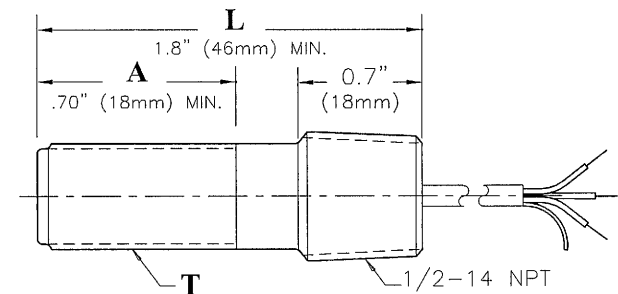
0221
K



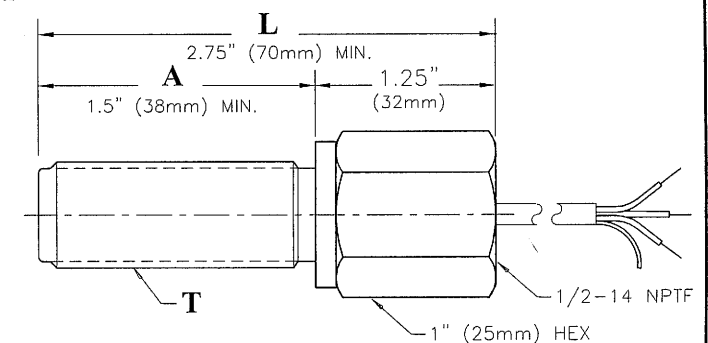
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A



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X



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Y



H Lin Pickup, Digispec, Lead Wire, 0221 Model Variant Options

SPECTEC P/N	Sensor Type	OL Output Logic	x Lead Wire		Body Style	T Thread	A Thread Length	L Overall Length
			Mtl	Lngh				
0220-xx	H Lin	STD OC PNP	PVC	2 (0.3m)	K A X Y	5/8-18 3/4-20 M18	.88 (22mm)	1.5 (38mm)
				3' (1m)			1.25 (32mm)	2.0 (51mm)
				10' (3m)			1.8 (45mm)	2.5 (64mm)
				(or spec)			3.0 (76mm)	3.1 (79mm)
							4.0 (101mm)	3.6 (92mm)
							5.0 (127mm)	4.6 (117mm)
							6.0 (152mm)	5.6 (142mm)
							(or spec)	(or spec)

Assigned SPECTEC P/N	Sensor Type	OL Output Logic	x Lead Wire		Body Style	T Thread	A Thread Length	L Overall Length
			Mtl	Lngh				
0221-01	H Lin	STD	TFE	10' (3m)	K	5/8-18	.88 (22mm)	1.5 (38mm)
-02							1.5 (38mm)	2.0 (51mm)
-03							1.8 (45mm)	2.5 (64mm)

Some options are unavailable in certain combinations.

Overall lengths $L \geq 3.5$ (89mm) are normally only available in body style K with 5/8-18 thread.

Contact your sales representative for more information.

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