

PRODUCT DESCRIPTION

SPECTEC's RF pickups are active sensors driven by an external RF ("carrier") signal conditioner. Together they complete an oscillating circuit. The output of this circuit is amplitude modulated when a ferrous object passes by the pickup coil. This change in modulation of the carrier frequency is then converted into a square wave pulse by the signal conditioner for computer and/or further processing.

RF4 pickups are designed to work with the applicable SPECTEC, COX F&P, & other carrier signal conditioners.

RF10 pickups work with the applicable SPECTEC, FTI, Hoffer, Sponsler, and other carrier signal conditioners.

An internal temperature probe is available which is positioned near the face of the sensor.

SPECIFICATIONS

DC-Coil Resistance/ Inductance:	RF4:	4 Ω / .36 mH
	RF10:	12 Ω / 1.00 mH
Frequency Range:	0.5 to 5000 Hz*	
Air Gap:	Open Face:	≤.160"* (sealed epoxy surface, high sensitivity)
	Closed Face:	≤.130"* (sealed stainless steel membrane, for harsh environment.)
	*depending on target mass and type of signal conditioner	
Oscillations Voltage:	3-9 Vpp when connected to an RF signal conditioner with: Vs=11-30 DCV	
Temperature Range:	3T:	-150° to 330°F (-100° to 165°C)
	3T w/NTC:	-112° to 300°F (-80° to 150°C)
	4HT:	-250° to 400°F (-157° to 204°C)
	5HT:	-450° to 450°F (-270° to 232°C)
	5HT w/RTD:	-330° to 450°F (-200° to 232°C)
8HT:	-450° to 750°F (-270° to 400°C)	
Connectors:	See Page 2 for Configurations All Connectors have Gold Plated Pins	
Lead Wire:	TFE: 22 AWG See Page 2 for Wire & Cable Options	
Construction:	300 Series Stainless Steel Solid Epoxy Encapsulation	
CE-Compliance:	EN55011, EN50082-2	

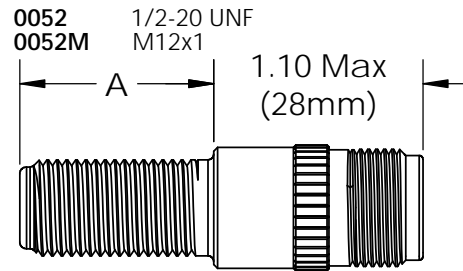
OPTIONS

Custom configurations are available, incl. special materials of construction, lead wires with connector terminations, etc...
 Please contact Sales

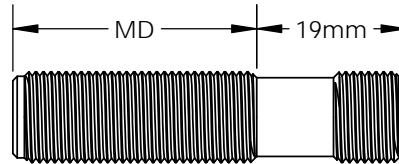
For intrinsically safe versions refer to bulletins: IS70 & IS71

SIGNAL CONDITIONERS

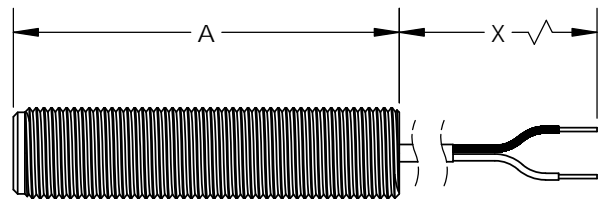
For matching signal conditioners, refer to SPECTEC's 4013, 4014 series.



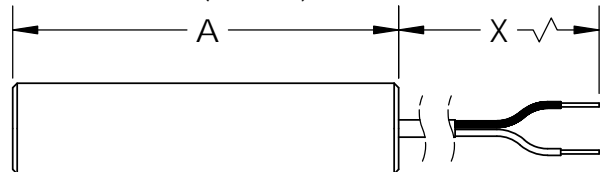
0052MD M12x1 w/ MD4 Connector Only



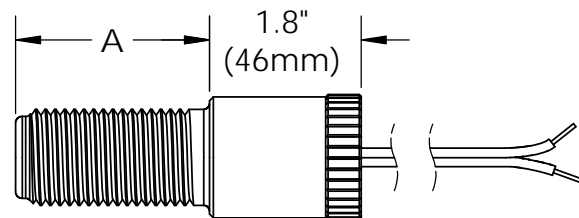
0051A 1/2-20 UNF
0051B 1/2-32 UN
0051M M12x1



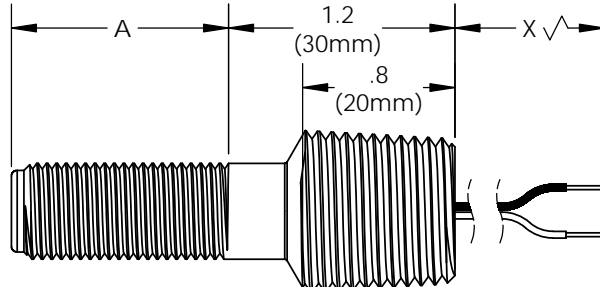
0051S Ø1/2" (12.7mm) Smooth Shell



0051 1/2-20 UNF FOR 8HT



0051X 1/2-20 UNF w/ 1/2-14 NPT



ORDER INFORMATION

STYLE:	OPTIONS:	THREADS/DIA.:
0052	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/2-20 UNF
0052M	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M12 x 1.0
0052MD	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M12 x 1.0 (MD4 Connector Only)

Thread Length (A,MD):	<u>0052 & 52M</u>	<u>0052MD</u>
	1 - 1.0" (25mm)	19mm
	2 - 2.0" (51mm)	32mm
	3 - 3.0" (76mm)	45mm
	4 - 4.0" (101mm)	83mm
	6 - 6.0" (152mm)	133mm

Pole Type:
 1 - Epoxy Face (Higher Sensitivity)
 2 - Stainless Steel Face (Harsh Environments)

Connector:
 1 - MS: 2 Pin MS3106-10SL-4S (see Bulletin 3000)
 2 - B: 2 Pin MS3113-H8C-2P (see Bulletin 3001)
 4 - B4: 4 Pin MS3113-H8C-4P (see Bulletin 3001)
 6 - MD4: 4 Pin MICRO DIN (see Bulletin 3005)

Temperature Range:
 3 - 3T: -150° to +330°F (-101° to +165°C)
 C - NTC: -112° to 300°F (-80° to 150°C) - NTC10k Ohm ±1%
 4 - 4HT: -250° to 400°F (-157° to +204°C)
 A - 4HT w/ RTD: -250° to 400°F (-157° to +204°C) - RTD100 Ohm, DIN EN 60751 F0.15
 5 - 5HT: -450° to +450°F (-268° to +232°C)
 B - 5HT w/ RTD: -330° to 450°F (-200° to +232°C) - RTD100 Ohm, DIN EN 60751 F0.15

Coil Type:
 1 - RF4: 4.0 Ohm
 3 - RF10: 12.0 Ohm

0051A	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/2-20 UNF ALL THREAD
0051B	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/2-32 UN ALL THREAD
0051M	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	M12 x 1.0 ALL THREAD
0051S	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Ø1/2" (12.7mm) Smooth Shell
0051	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/2-20 UNF for 8HT

Length(A):	2 - 1.0" (25mm)
	3 - 1.25" (32mm)
	4 - 1.50" (38mm)
	5 - 2.00" (51mm) [1.80"(46mm) for 0051S ONLY]
	6 - 2.50" (64mm)
	7 - 4.00" (101mm)
	8 - 6.00" (152mm)

SAME AS ABOVE

Lead Wire(X):
 2 - 2' (.6m) Single Leads
 7 - 3' (1m) Shielded Cable, 8HT: Single Lead
 9 - 10' (3m) Shielded Cable, 8HT: Single Lead

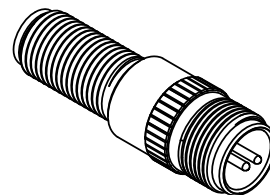
Temperature Range:
 SAME AS ABOVE BUT WITH ADDED 8HT (0051 ONLY)
 8 - 8HT: -450° to +750°F (-268° to +400°C)

SAME AS ABOVE

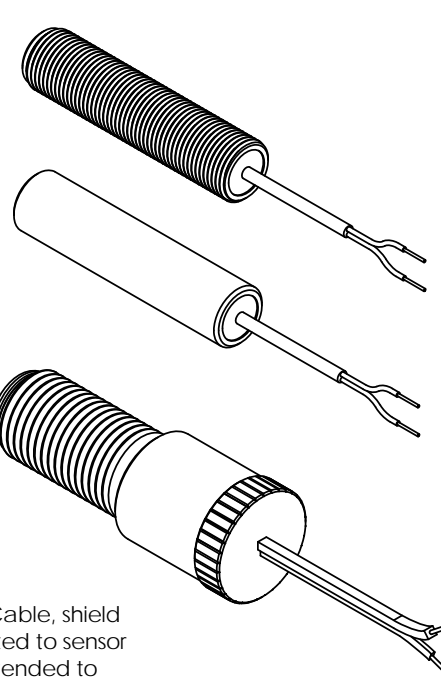
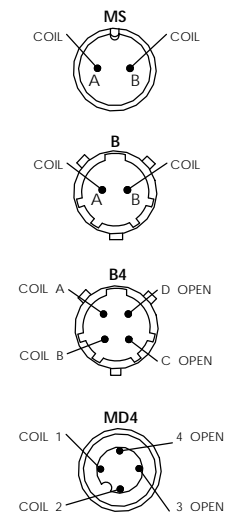
0051X	- <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	1/2-20 UNF with 1/2-14 NPT Male Conduit
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Thread Length(A):	1 - 1.3" (33mm)
	2 - 2.50" (64mm)

SAME AS ABOVE



Connector Pinouts



Note: For Shielded Cable, shield is not connected to sensor shell, and is intended to be connected to the instrument panel ground.

