

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 computing and/or further processing.

RF4 pickups are designed to work with the applicable SPECTEC, Cox F&P and 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 ≤ 6000 Hz*

Air Gap: Open Face: $\leq .160$ "*
(sealed epoxy surface, high sensitivity)
Closed Face: $\leq .130$ "*
(sealed stainless steel membrane, for harsh environments)
* depending on target mass and type of signal conditioner

Temperature Range: 3T: -150° to 330°F (-100° to 165°C)
4HT: -250° to 400°F (-157° to 204°C)
5HT: -450° to 450°F (-270° to 232°C)

Oscillation Voltage: 3 - 9 Vpp when connected to an RF signal conditioner with:
Vs = 11 - 30 VDC

Construction: 303/304 S.S.,
Solid Epoxy Encapsulation,
TFE insulated lead wires.

CE Compliance: EN55011, EN50022-2

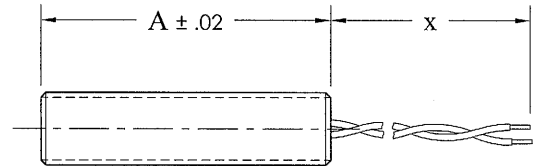
OPTIONS:

Custom configurations/enclosures, thread sizes, including metric, special materials of construction, temperature probe: NTC10, RTD100 or others, please contact sales.

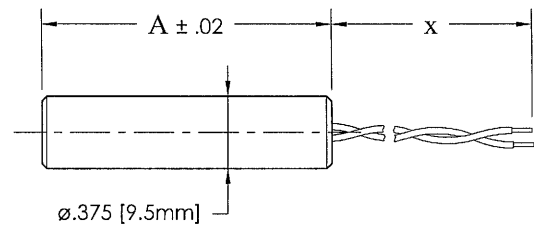
SIGNAL CONDITIONERS:

For matching signal conditioners, please refer to SPECTEC's 4013 · 4014 series RF signal conditioner bulletins.

0050 3/8-24 UNF
0050M M10x1.0



0050S 3/8" Dia. SMOOTH SHELL



ORDER INFORMATION

0050 - 0 0 0 0 0 RF PICKUP, 3/8-24 UNF - LEAD WIRE TYPE
 0050M - 0 0 0 0 0 RF PICKUP, M10x1.0
 0050S - 0 0 0 0 0 RF PICKUP, 3/8" Dia. SMOOTH SHELL

Thread Length "A" in. (mm)
 1 - 0.50" (13mm)
 3 - 1.0 (25)
 4 - 1.5 (38)
 5 - 2.0 (51)
 6 - 2.5 (63)

Face
 1 - STANDARD FACE (EPOXY SEALED)
 2 - STAINLESS STEEL FACE

Lead Wire Length "x" ft. (m)
 1 - 1' (0.3m) SINGLE LEADS (22 AWG)
 5 - 3' (1.0m) SHIELDED CABLE (26 AWG)
 6 - 10' (3m) SHIELDED CABLE (26 AWG)

Temperature Range
 3 - -150° to 330°F (-101° to 165°C)
 4 - -250° to 400°F (-157° to 204°C)
 5 - -450° to 450°F (-268° to 232°C)
 A - -330° to 450°F (-200° to 232°C) with RTD 100Ω (± 0.15°C)
 C - -112° to 300°F (-80° to 150°C) with NTC 10kΩ (± 0.2°C)

Type
 1 - RF4: 4 Ohm
 3 - RF10: 12 Ohm