0059 • 0060 • 0066 RF PICKUPS WITH OPTIONAL TEMPERATURE PROBE 11/16

## 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.( NTC10, RTD100, or others)

For intrinsically safe versions refer to bulletins: IS70/71 & IS100/101.

## **SPECIFICATIONS**

DC-Coil Resistance/Inductance:

 $\begin{array}{lll} \text{RF4:} & 4\Omega & .36\text{mH} \\ \text{RF10:} & 12\Omega & 1.00\text{mh} \end{array}$ 

**Operating Freq.**:  $\geq 0.5 \text{ to} \leq 6000 \text{ Hz}^*$ 

Air Gap:

Open Face: ≤ .160" \* (Sealed epoxy

surface, high sensitivity)

Closed Face: ≤ .130"\* (Sealed stainless steel membrane, for harsh environments)
\*Depending on target mass and type of signal

conditioner (8HT: 20% loss)

Temperature Range:

3T: -150° to 330°F (-100° to 165°C)
3T w/NTC: -112° to 300°F (-80° to 150°C)
3T w/RTD: -150° to 330°F (-100° to 165°C)
4HT: -250° to 400°F (-157° to 204°C)
4HT w/RTD: -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 752°F (-270° to 400°C)
8HT w/RTD: -328° to 752°F (-200° to 400°C)

Oscillation Voltage:

3-9 Vpp when connected to a 4013/4014

HS type signal conditioner

Connectors:

See Page 2 for Configurations All have Gold Plated Contacts

Lead Wire:

See Page 2 for Wire & Cable Options

Construction:

300 Series Stainless Steel Solid Epoxy or Ceramic (8HT)

Encapsulation

TFE or Mica (8HT) insulated wires

or cables See Page 2

CE-Compliance:

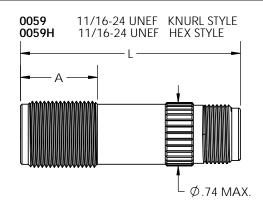
EN55011, EN50082-2

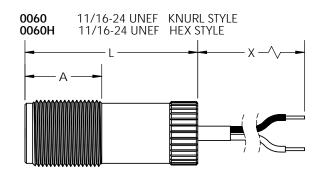
## **OPTIONS**

Custom configurations/enclosures, thread sizes, special materials, or temperature probes. Please contact sales.

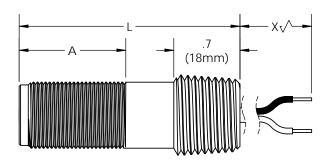
## SIGNAL CONDITIONERS

For matching signal conditioners, please refer to SPECTEC's 4010, 4013 & 4014 series.





**0066** 11/16-24 UNEF with 1/2-14 NPT Male



0060R 11/16-24 UNEF with right angle leads

