PRODUCT DESCRIPTION
SPECTEC’s Intrinsically Safe preamplifier for passive magnetic VRS sensors is designed for installation in hazardous locations. The 'ELBY' housing type will fit in ELBY50 and ELBY75 explosion proof junction boxes. The 'A' housing type will fit in a GAUL-16 or similar standard explosion proof junction box.

INSTALLATION
CAUTION: This sensor MUST be installed with an FM approved barrier and following the details specified in the Installation Instruction Document #85049.

SPECIFICATIONS
Supply Voltage: 7.5-30Vdc @ ≤ 3mA for 0-5Vo
& Current: 11-30Vdc @ ≤ 12mA for 0-10Vo
3.6Vdc min. @ ≤ 20mA for 0-Vs
Output Voltage: See below
(R Load > 20kΩ)
Frequency Range: ± 5 Hz to 10 kHz
Up to 40 kHz with increased signal
Input Sensitivity: See below
Temperature: T4 Ta = -40° to 85°C
Range: T5 Ta = -40° to 80°C
T6 Ta = -40° to 60°C
Construction: Plastic housing
Solid Epoxy Encapsulation

TERMINAL CONNECTIONS
1 - Supply Voltage 4 - Mag Sensor (IS only)
2 - Common 5 - Mag Sensor (IS only)
3 - Output Signal (see IS40 & IS41)

ORDERING INFORMATION
IS4022 - x x Mag Preamp (US & C cert.)
IS4022A - x x Mag Preamp (with ATEX cert.)

Output
Signal
1 - 0-5V, NPN
2 - 0-10V, NPN
3 - 0-Vs, NPN
4 - 0-Vs, NPN, OC
5 - Selectable: 0-5V, NPN
   0-10V, NPN
   0-Vs, NPN, OC
6 - 0-Vs, PNP, OC

Input
Sensitivity
0 - 30 mVpp (Standard)
1 - 12 mVpp (High)

For ‘A’ housing type, P/N is IS4022-Axx
or for ATEX version P/N is IS4022A-Axx
For explosion proof junction box refer to bulletin 4001.

CERTIFICATIONS for IS4022
USA: Intrinsically Safe
   Class I, II, III, Division 1
   GROUP ABCDEFG
   Class I, Zone 0, AEx ia IIC

Canada: Intrinsically Safe
   Class I, II, III, Division 1
   GROUP ABCD
   Class I, Zone 0, Ex ia IIC

CERTIFICATIONS for IS4022A
ATEX: II 1 G Ex ia IIC
       FM08ATEX0068X
CE: Compliance with
    EN55011, EN50022-2