



PRODUCT DESCRIPTION

SPECTEC's Non-Incendive / Increased Safety preamplifier for passive magnetic VRS sensors is designed for installation in hazardous locations and to fit a Crouse-Hinds GUAL16 or similar standard explosion proof junction box. Standard and NC (with expanded noise filtering) models are offered.

INSTALLATION

CAUTION: This sensor MUST be installed following the details specified in the Installation Instruction Document #85051N.

SPECIFICATIONS

Supply Voltage & Current: 7.5-30Vdc @ ≤ 3mA for 0-5Vo
 13-30Vdc @ ≤ 12mA for 0-12Vo
 3.6-30Vdc @ ≤ 20mA for 0-Vs
NC Model: 25Vdc Maximum for USA and Canada

Output Voltage: See below (R Load >20kΩ)

Frequency Range: ~5 Hz to 10 kHz
 Up to 40 kHz with increased signal
NC Model: ~5 Hz to 5 kHz

Input Sensitivity: See below

Construction: Plastic housing
 Solid Epoxy Encapsulation

TERMINAL CONNECTIONS

- | | |
|--------------------------------|-----------------|
| 1 - Supply Voltage | 5 - Mag Sensor |
| 2 - Common | 6 - Mag Sensor |
| 3 - Output Signal (half freq.) | (see N40 & N41) |
| 4 - Output Signal | |

FEATURE SELECTION

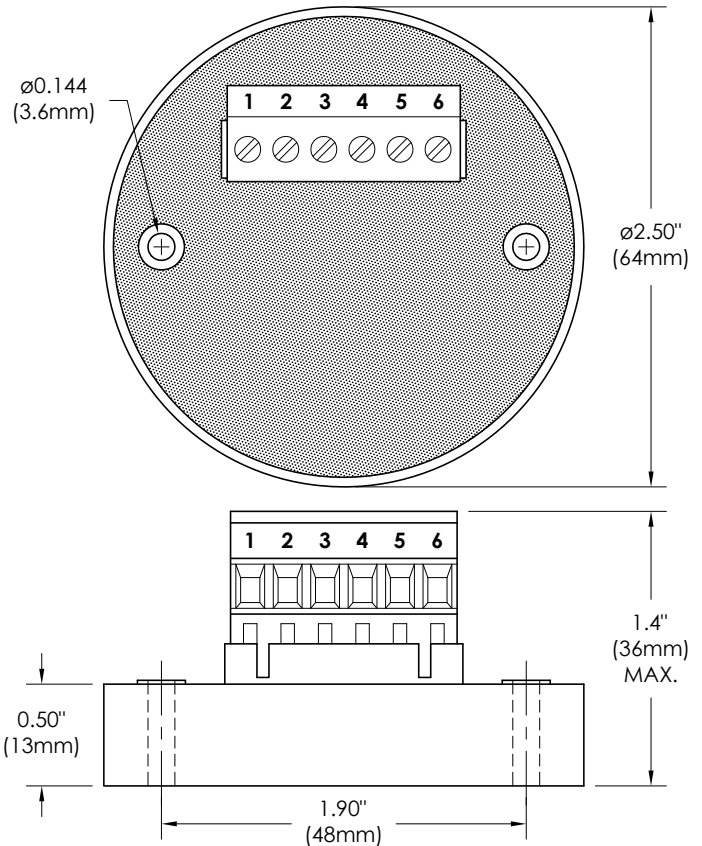
N4021 - Mag Preamplifier

Output Signal: 1 - 0-5V, NPN/PNP (push-pull)
 2 - 0-12V, NPN/PNP (push-pull)

Input Sensitivity: 0 - 60 mVpp
 1 - 12 mVpp

For NC model add 'NC' as a suffix: (e.g. N4021-xxNC)

For explosion proof junction box refer to bulletin 4001



CERTIFICATIONS for N4021

ATEX: II 3 G Ex ec IIC T6...T4 Gc
FM08ATEX0069X

IECEX: Ex ec IIC T6...T4 Gc
IECEX FMG 16.0003X

T4 @ -40°C ≤ T_{amb} ≤ +85°C
T5 @ -40°C ≤ T_{amb} ≤ +80°C
T6 @ -40°C ≤ T_{amb} ≤ +60°C

USA: Class I, II, III, Division 2
GROUP ABCDEFG T6...T4
 Class I, Zone 0, AEx nC IIC T6...T4

Canada: Class I, Division 2
GROUP ABCD T6...T4
 Class I, Zone 0, Ex nL IIC T6...T4

T4 @ -40°C ≤ T_{amb} ≤ +85°C
T5 @ -40°C ≤ T_{amb} ≤ +80°C
T6 @ -40°C ≤ T_{amb} ≤ +60°C

CE: Compliance with
EN50081-1, EN50082-1