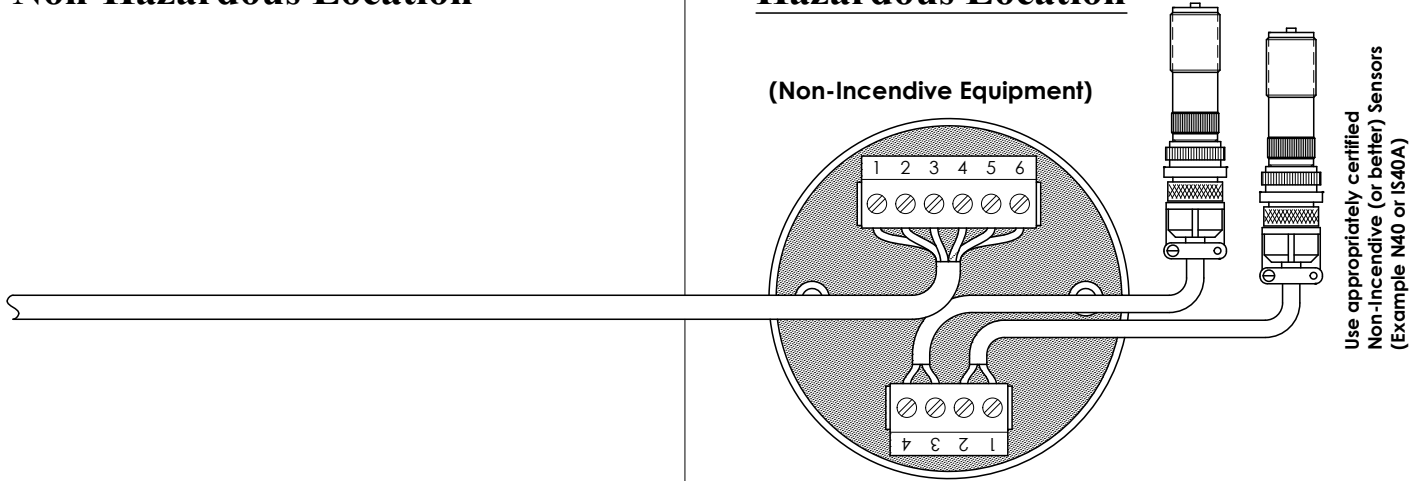


Non-Hazardous Location

Hazardous Location

(Non-Incendive Equipment)



$V_{max}, U_i = 25 \text{ Vdc}$
 $I_{max}, I_i = 100 \text{ mA}$
 $C_i = 12 \text{ nF}$
 $L_i = 0 \text{ mH max.}$
 $P_{max}, P_i = 0.66 \text{ watts}$

Certifications for N4033

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

UKEX: II 3 G Ex ec IIC T6...T4 Gc APPROVED
 FM22UKEX0111X

CE: Compliance with
 EN50081-1, EN50082-1

IECEX: Ex ec IIC T6...T4 Gc
 IECEX FMG 16.0003X
 T4 @ $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$
 T5 @ $-40^\circ\text{C} \leq T_{amb} \leq +80^\circ\text{C}$
 T6 @ $-40^\circ\text{C} \leq T_{amb} \leq +60^\circ\text{C}$

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

Canada: Class I, Division 2
 Group ABCD T6...T4
 Class I, Zone 2, Ex nL IIC T6...T4
 T4 @ $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$
 T5 @ $-40^\circ\text{C} \leq T_{amb} \leq +80^\circ\text{C}$
 T6 @ $-40^\circ\text{C} \leq T_{amb} \leq +60^\circ\text{C}$

NOTES:

- The preamp shall be installed in an enclosure. It shall also be installed in compliance with the enclosure, mounting, spacing, and segregation requirements of the ultimate application.

For ATEX, UKEX, and IECEx installations the enclosure shall maintain an ingress protection rating of IP54 (or greater according to the intended use and environmental conditions) and meets the enclosure requirements of EN 60079-0 and EN 60079-7 (for UKEX installations BS EN IEC 60079-0 and BS EN IEC 60079-7, for IECEx installations IEC 60079-0 and IEC 60079-7).

Installation shall also be in accordance with the following standards:

for US installations follow ANSI/ISA RP12.6 and the National Electrical Code ANSI/NFPA 70,
 for Canadian installations follow the Canadian Electrical Code,
 for ATEX & UKEX installations follow EN 60079-14, for IECEx installations follow IEC 60079-14.

- Control Equipment** connected to associated equipment must not use or generate more than 250V.
- The non-metallic cover of the preamp is considered an electrostatic discharge hazard.**
 Clean only with a damp cloth.
- Preamplifier should be de-energized** before separating connections.

SPECTEC
 THUNDERBIRD INTERNATIONAL CORPORATION

P.O. Box 360 • Emigrant, MT 59027
 406-333-4967 • FAX: 406-333-4259

DO NOT ALTER WITHOUT AGENCY APPROVAL

N DIRECTIONAL PREAMPLIFIER
 FOR PASSIVE MAGNETIC SPEED
 SENSOR

TITLE
 NON-INCENDIVE
 INSTALLATION INSTRUCTIONS

AGENCY APPROVAL DATE
 Feb 17th, 2023
 REV. 4 DATE 11-15-2022

DRAWN BY JE

APPROVED BY

SCALE PROCESS SPEC.

NUMBER
85053N