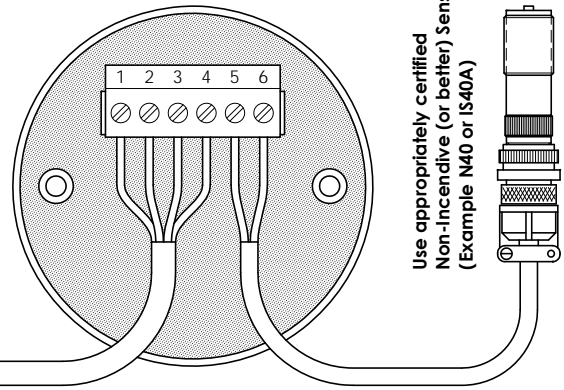


Non-Hazardous Location

Hazardous Location



(Non-Incendive Equipment)

$V_{max}, U_i = 30 \text{ Vdc}$ (For N4021-xx)
 $V_{max}, U_i = 25 \text{ Vdc}$ (For N4021-xxNC)
 $I_{max}, I_i = 100 \text{ mA}$
 $C_i = 12 \text{ nF}$
 $L_i = 0 \text{ mH max.}$
 $P_{max}, P_i = 0.66 \text{ watts}$

Certifications for N4021

ATEX & IECEx:

II 3 G Ex ec IIC T6...T4 Gc
 FM08ATEX0069X
 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 @ $-40^{\circ}\text{C} \leq T_{amb} \leq +60^{\circ}\text{C}$

CE:

Compliance with
 EN50081-1, EN50082-1

USA:

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

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 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 60079-15 (replace with IEC 60079-0 and IEC 60079-15 for IECEx installations).

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 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.
- Preamp** should be de-energized before separating connections.

<p>THUNDERBIRD INTERNATIONAL CORPORATION</p> <p>P.O. Box 360 • Emigrant, MT 59027 406-333-4967 • FAX: 406-333-4259</p>	DO NOT ALTER WITHOUT AGENCY APPROVAL		DRAWN BY JE
	N	PREAMPLIFIER FOR PASSIVE MAGNETIC SPEED SENSOR	APPROVED BY
			SCALE PROCESS SPEC.
	NON-INCENDIVE INSTALLATION INSTRUCTIONS	AGENCY APPROVAL DATE Feb 03, 2017	NUMBER 85051N
	REV. 3	DATE 11-29-16	