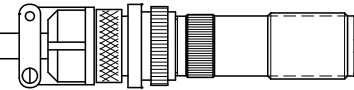


Non-Hazardous Location

Hazardous Location



(Non-Incendive Equipment)

$V_{max}, U_i = 30 \text{ Vdc}$

$I_{max}, I_i = 100 \text{ mA}$

$C_i = 0 \text{ nF}$ (For N100, N101, N220 & N221)

$C_i = 12 \text{ nF}$ (For N90, N91, N160, N161, N170 & N171)

$L_i = 0 \text{ mH max.}$

$P_{max}, P_i = 0.66 \text{ watts}$

Certifications for N90 & N91, N100 & N101, N160 & N161, N170 & N171, N220 & N221

ATEX: II 3 G Ex ec IIC T6...T3 Gc FM08ATEX0067X

UKEX: II 3 G Ex ec IIC T6...T3 Gc APPROVED FM22UKEX0109X

CE: Compliance with EN55011, EN50082-2

IECEx: Ex ec IIC T6...T3 Gc IECEx FMG 16.0003X

T3 @ $-40^\circ\text{C} \leq T_{amb} \leq +135^\circ\text{C}$
 T4 @ $-40^\circ\text{C} \leq T_{amb} \leq +120^\circ\text{C}$
 T5 @ $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$
 T6 @ $-40^\circ\text{C} \leq T_{amb} \leq +65^\circ\text{C}$

USA: For N90, N100, N160, N170, & N220: Class I, Division 2 Group ABCD T6...T5 Class I, Zone 2, AEx nC IIC T6...T5

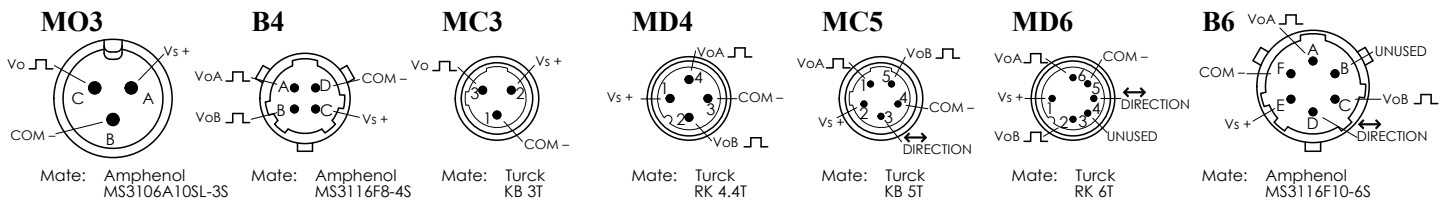
For N91, N101, N161, N171, & N221: Class I, II, III, Division 2 Group ABCDEFG T6...T5 Class I, Zone 2, AEx nC IIC T6...T5

Canada: Class I, Division 2 Group ABCD T6...T5 Class I, Zone 2, Ex nL IIC T6...T5

T5 @ $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$
 T6 @ $-40^\circ\text{C} \leq T_{amb} \leq +65^\circ\text{C}$

NOTES:

- Installation** to 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.
- Sensor must be mounted as part of a bonded structure.**
- Sensor should be de-energized** before separating connector and sensor.
- Aluminum housings:** The mounting bracket contains aluminum and is considered to constitute a potential risk of ignition by impact or friction and must be taken into account during installation.
- Lead Wires:** Red/Vs+, Black/Common-, White/Vo Output A, Yellow/Vo Output B, Green/Direction Connector:



SPECTEC
THUNDERBIRD INTERNATIONAL CORPORATION

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DO NOT ALTER WITHOUT AGENCY APPROVAL

N DIGISPEC SPEED AND POSITION SENSOR

TITLE
NON-INCENDIVE
INSTALLATION INSTRUCTIONS

AGENCY APPROVAL DATE
Feb 17th, 2023
REV. 5 DATE 11-15-2022

DRAWN BY JE

APPROVED BY SCALE PROCESS SPEC.

NUMBER
85047N