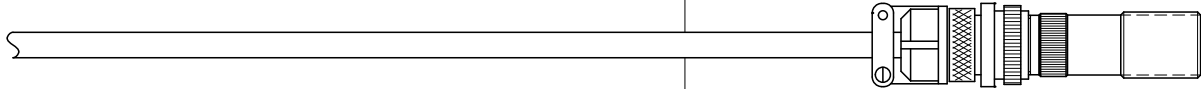


Non-Hazardous Location

Hazardous Location



(Non-Incendive Equipment)

$V_{max}, U_i = 30 \text{ Vdc}$
 $I_{max}, I_i = 100 \text{ mA}$
 $C_i = 0 \mu\text{F}$
 $L_i = 1.50 \text{ mH max.}$
 $P_{max}, P_i = 0.66 \text{ watts}$

Certifications for N70 & N71

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 N70:
 Class I, Division 2
 Group ABCD T6...T5
 Class I, Zone 2, AEx nC IIC T6...T5



For N71:
 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

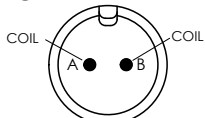
T5 @ $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$
 T6 @ $-40^\circ\text{C} \leq T_{amb} \leq +65^\circ\text{C}$

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.
- Lead Wires:** Black and/or White

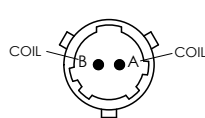
Connector:

MO



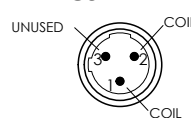
Mate: Amphenol
 MS3106A10SL-4S

B



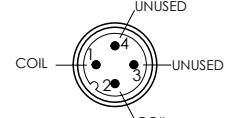
Mate: Amphenol
 MS3116F8-2S

MC3



Mate: Turck
 KB 3T

MD4



Mate: Turck
 RK 4.4T

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

RF SPEED AND
 POSITION 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
85046N