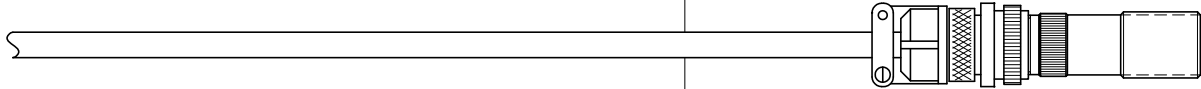


## Non-Hazardous Location

## Hazardous Location



(Non-Incendive Equipment)

V<sub>max</sub>, U<sub>i</sub> = 30 Vdc  
 I<sub>max</sub>, I<sub>i</sub> = 100 mA  
 C<sub>i</sub> = 0 µF  
 L<sub>i</sub> = 1.50 mH max.  
 P<sub>max</sub>, P<sub>i</sub> = 0.66 watts

### Certifications for N70 & N71

#### ATEX & IECEx:

II 3 G Ex ec IIC T6...T3 Gc  
 FM08ATEX0067X  
 IECEx FMG 16.0003X

T3 @ -40°C ≤ T<sub>amb</sub> ≤ +135°C  
 T4 @ -40°C ≤ T<sub>amb</sub> ≤ +120°C  
 T5 @ -40°C ≤ T<sub>amb</sub> ≤ +85°C  
 T6 @ -40°C ≤ T<sub>amb</sub> ≤ +65°C

CE: Compliance with  
 EN55011, EN50082-2

#### USA: N70: Class I, Division 2

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

#### 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

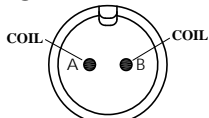
T5 @ -40°C ≤ T<sub>amb</sub> ≤ +85°C  
 T6 @ -40°C ≤ T<sub>amb</sub> ≤ +65°C

#### 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 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

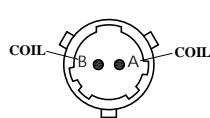
#### Connector:

##### MO



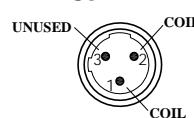
Mate: Amphenol  
 MS3106A10SL-4S

##### B



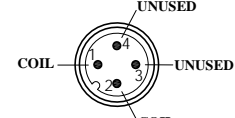
Mate: Amphenol  
 MS3116F8-2S

##### 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 03, 2017  
 REV. 3 DATE 11-29-16

DRAWN BY JE

APPROVED BY *JE*  
 SCALE PROCESS SPEC.

NUMBER  
**85046N**