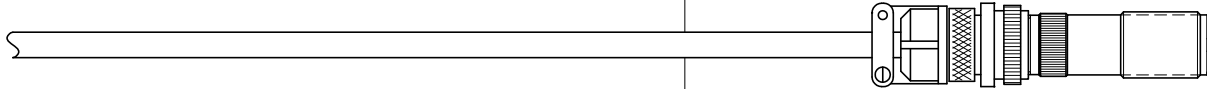


## Non-Hazardous Location

## Hazardous Location



(Non-Incendive Equipment)

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

### Certifications for N40 & N41

#### ATEX & IECEX:

$\text{Ex}$  II 3 G Ex ec IIC T6...T3 Gc  
 FM08ATEX0067X  
 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 @  $-40^\circ\text{C} \leq T_{amb} \leq +65^\circ\text{C}$

CE: Compliance with  
 EN50081-1, EN50082-1

#### USA: N40: Class I, Division 2

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

#### N41: 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

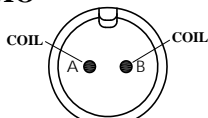
T5 @  $-40^\circ\text{C} \leq T_{amb} \leq +85^\circ\text{C}$   
 T6 @  $-40^\circ\text{C} \leq T_{amb} \leq +65^\circ\text{C}$

#### 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 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

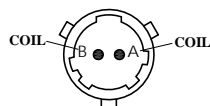
#### Connector:

##### MO



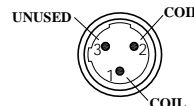
Mate: Amphenol  
 MS3106A10SL-4S

##### B



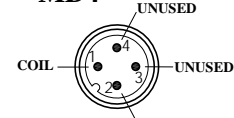
Mate: Amphenol  
 MS3116F8-2S

##### 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**

PASSIVE MAGNETIC  
 SPEED SENSOR



TITLE  
 NON-INCENDIVE  
 INSTALLATION INSTRUCTIONS

AGENCY APPROVAL DATE  
**Feb 03, 2017**  
 REV. 5 DATE 11-29-16

DRAWN BY JE

APPROVED BY *JE*  
 SCALE PROCESS SPEC.

NUMBER  
**85045N**