Magnetic Pick up Coil

85045 Installation Instruction, Intrinsically Safe

Non-Hazardous Location

<table>
<thead>
<tr>
<th>I.S. Barrier</th>
<th>See note 1</th>
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<tbody>
<tr>
<td>(Associated Equipment)</td>
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</table>

| Vmax, Ul | ≥ | Uo, Voc or Vt |
| Imax, Il | ≥ | Io, Isc or It |
| Co or Ca | ≥ | Cl + Cc |
| Lo or La | ≥ | Ui + Lc |
| Pi or Po | ≤ | Pi |

Hazardous Location

| (Intrinsically Safe Equipment) | |

| Vmax, Ul | = | 30 Vdc |
| Imax, Il | = | 100 mA |
| Ci | = | 0 µF |
| Li | = | 0 mH max. |
| Pmax, Pi | = | 0.66 watts |

Certifications for IS40A & IS41A

**ATEX:**
II 1 G Ex ia IIC T6...T4 Ga  
FM08ATEX0066X

**IECEx:**
Ex ia IIC T6...T4 Ga  
IECEx FMG 16.0003X
T4 @ -40°C ≤ Tamb ≤ +100°C  
T5 @ -40°C ≤ Tamb ≤ +85°C  
T6 @ -40°C ≤ Tamb ≤ +65°C

**CE:**
Compliance with  
EN50081-1, EN50082-1

NOTES:

1. Barrier must satisfy the electrical requirements listed above.  
Barrier manufacturer’s installation drawing must be followed when installing the system.  
For US installations, the barrier configuration must be FM Global approved.  
See Bulletin 4003 for recommended barriers.

2. 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.

3. Control Equipment connected to associated equipment must not use or generate more than 250V.

4. Sensor must be mounted as part of a bonded structure.

5. Sensor should be de-energized before separating connector and sensor.

6. Lead Wires: Black and/or White

CONNECTOR:

**MO**

Male: Amphenol MS3016A/NSL-45

**B**

Male: Amphenol MS3116F8-2S

**MC3**

Male: Turck KB 3T

**MD4**

Male: Turck RX 4.4T

http://www.flowmetrics.com

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