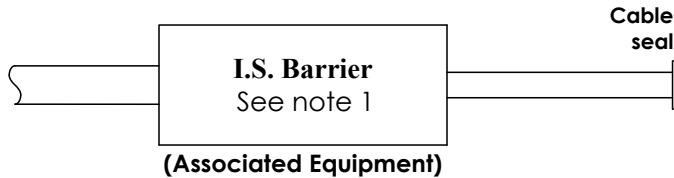


Non-Hazardous Location



$$\begin{aligned} V_{\max}, U_i &\geq U_o, V_{oc} \text{ or } V_t \\ I_{\max}, I_i &\geq I_o, I_{sc} \text{ or } I_t \\ C_o \text{ or } C_a &\geq C_i + C_c \\ L_o \text{ or } L_a &\geq L_i + L_c \\ P_t \text{ or } P_o &\leq P_i \end{aligned}$$

Hazardous Location



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

Certifications for IS40A & IS41A

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

UKEX: II 1 G Ex ia IIC T6...T4 Ga FM22UKEX0108X **APPROVED**

CE: Compliance with EN50081-1, EN50082-1

IECEx: Ex ia IIC T6...T4 Ga IECEx FMG 16.0003X

T4 @ -40°C ≤ T_{amb} ≤ +100°C
T5 @ -40°C ≤ T_{amb} ≤ +85°C
T6 @ -40°C ≤ T_{amb} ≤ +65°C

Certifications for IS40 & IS41

USA: Intrinsically Safe
Class I, II, III, Division 1
Group ABCDEFG T6...T5
Class I, Zone 0, AEx ia IIC T6...T5

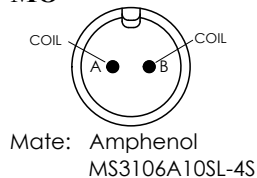
Canada: Intrinsically Safe
Class I, Division 1
Group ABCD T6...T5
Class I, Zone 0, Ex ia IIC T6...T5

T5 @ -40°C ≤ T_{amb} ≤ +85°C
T6 @ -40°C ≤ T_{amb} ≤ +65°C

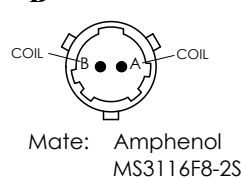
NOTES:

- 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.
- 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



B



MC3

