

CSA Hazardous Area Approvals Fisher™ i2P-100 Electro-Pneumatic Transducer

Hazardous Area Classifications and Special Instructions for “Safe Use” and Installation in Hazardous Locations

Certain nameplates may carry more than one approval, and each approval may have unique installation/wiring requirements and/or conditions of “safe use”. These special instructions for “safe use” are in addition to, and may override, the standard installation procedures. Special instructions are listed by approval.

Note

This information supplements the nameplate markings affixed to the product and the i2P-100 instruction manual ([D103198X012](#)), available from your [Emerson Automation Solutions sales office](#) or at [www.Fisher.com](#).



Always refer to the nameplate itself to identify the appropriate certification.

⚠ WARNING

Failure to follow these conditions of “safe use” could result in personal injury or property damage from fire or explosion, and area re-classification.

Intrinsically Safe, Explosion-proof, Type n, Dust-Ignition proof

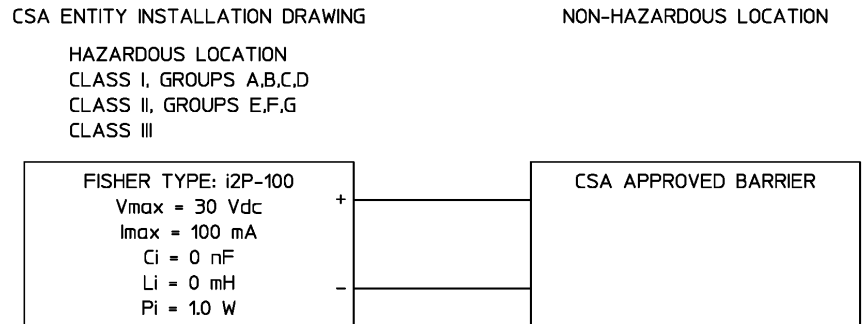
No special conditions of safe use.

Refer to table 1 for approval information.

Table 1. Approval Information

Certification Body	Certification Obtained	Entity Rating	Temperature Code
CSA	Intrinsically Safe Ex ia IIC T3/T4/T5 per drawing GE07471, Ga (see figure 1) Ex ia Intrinsically Safe Class I, II, III Division 1 GP A,B,C,D,E,F,G per drawing GE07471 (see figure 1)	Vmax = 30 VDC Imax = 100 mA Pi = 1.0 W Ci = 0 uF Li = 0 uH	T3 (Tamb ≤ 85°C) T4 (Tamb ≤ 81°C) T5 (Tamb ≤ 46°C)
	Explosion-proof Ex d IIC T5/T6, Gb Class I, Division 1 GP, A,B,C,D T5	---	T5 (Tamb ≤ 85°C) T6 (Tamb ≤ 75°C)
	Type n Ex nC IIC T5/T6, Gc	---	T5 (Tamb ≤ 85°C) T6 (Tamb ≤ 75°C)
	Class I, Division 2, GP A,B,C,D T5 Class II, Division 1, GP E,F,G T5 Class II, Division 2 GP F,G T5 Class III	---	T5 (Tamb ≤ 85°C)

Figure 1. CSA Loop Schematic (Drawing GE07471)



WARNING:

THE APPARATUS ENCLOSURE CONTAINS ALUMINUM AND IS CONSIDERED TO CONSTITUTE A POTENTIAL RISK OF IGNITION BY IMPACT OR FRICTION. AVOID IMPACT AND FRICTION DURING INSTALLATION AND USE TO PREVENT RISK OF IGNITION.

NOTES:

1. BARRIERS MUST BE CSA CERTIFIED WITH ENTITY PARAMETERS AND ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS I.S. INSTALLATION INSTRUCTIONS.
2. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, PART I.
3. FOR ENTITY INSTALLATION: $V_{max} > V_{oc}$, $I_{max} > I_{sc}$, $C_i + C_{cable} < C_a$, $L_i + L_{cable} < L_a$.

GE07471_B

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