

# 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 sales office](#) or Local Business Partner, 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

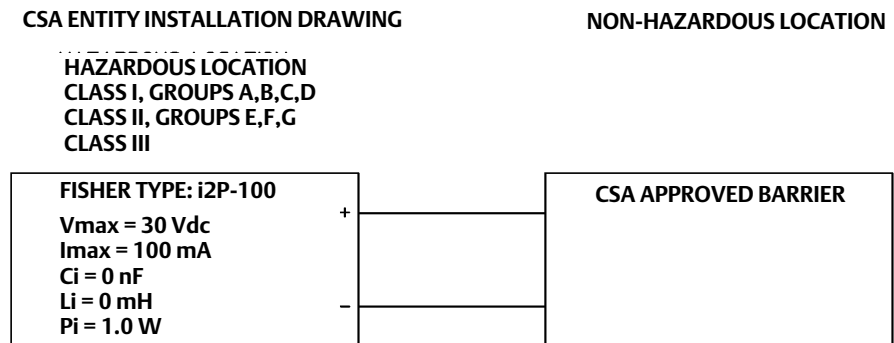
No special conditions of safe use.

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)	V <sub>max</sub> = 30 VDC I <sub>max</sub> = 100 mA P <sub>i</sub> = 1.0 W C <sub>i</sub> = 0 uF L <sub>i</sub> = 0 uH	T3 (T <sub>amb</sub> ≤ 85°C) T4 (T <sub>amb</sub> ≤ 81°C) T5 (T <sub>amb</sub> ≤ 46°C)
	Explosion-proof Ex d IIC T5/T6, Gb Class I, Division 1 GP, A,B,C,D T5	---	T5 (T <sub>amb</sub> ≤ 85°C) T6 (T <sub>amb</sub> ≤ 75°C)
	Type n Ex nC IIC T5/T6, Gc	---	T5 (T <sub>amb</sub> ≤ 85°C) T6 (T <sub>amb</sub> ≤ 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 (T <sub>amb</sub> ≤ 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:  $V_{max} > V_{oc}$ ,  $I_{max} > I_{sc}$ ,  $C_i + C_{cable} < C_a$ ,  $L_i + C_{cable} < L_a$ .**

GE07471\_B

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