

# IECEx 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.

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### 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.

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### **⚠ 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.**

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### Standards used for Certification

IEC 60079-0: 2011  
IEC60079-1: 2014  
IEC60079-11: 2011  
IEC60079-15: 2010  
IEC60079-31: 2013

### Conditions of Certification

#### Intrinsically Safe, Type n, Flameproof

The Intrinsically Safe version has the following Entity Parameters:

$U_i = 30 \text{ V}$  ;  $I_i = 100 \text{ mA}$  ;  $P_i = 1.0 \text{ W}$  ;  $C_i = 0 \text{ uF}$  ;  $L_i = 0 \text{ uH}$

Refer to table 1 for additional information.

Table 1. Additional Approval Information

Certificate	Certification Obtained	Entity Rating	Temperature Code
IECEx	Intrinsically Safe Ex ia IIC T3/T4/T5 Ga Ex ia IIIC T95°C Da	U <sub>i</sub> = 30 VDC I <sub>i</sub> = 100 mA P <sub>i</sub> = 1.0 W C <sub>i</sub> = 0 µF L <sub>i</sub> = 0 µH	T3 (T <sub>amb</sub> ≤ 85°C) T4 (T <sub>amb</sub> ≤ 81°C) T5 (T <sub>amb</sub> ≤ 46°C)
	Flameproof Ex d IIC T5/T6 Gb Ex tb IIIC T95°C Db	---	T5 (T <sub>amb</sub> ≤ 85°C) T6 (T <sub>amb</sub> ≤ 75°C)
	Type n Ex nC IIC T5/T6 Gc Ex tc IIIC T95°C Db	---	T5 (T <sub>amb</sub> ≤ 85°C) T6 (T <sub>amb</sub> ≤ 75°C)

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