

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.

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 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.

Standards used for Certification

IEC 60079-0: 2017
IEC60079-1: 2014
IEC60079-11: 2011
IEC60079-15: 2017
IEC60079-31: 2013

Conditions of Certification

Intrinsically Safe, Type n, Flameproof

The Intrinsically Safe version has the following Entity Parameters:

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

Flameproof

Repairs of flameproof joints should not be undertaken by the end user. In the event that flameproof joint must be repaired, contact the manufacturer.

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 _i = 30 VDC I _i = 100 mA P _i = 1.0 W C _i = 0 µF L _i = 0 µH	T3 (T _{amb} ≤ 85°C) T4 (T _{amb} ≤ 81°C) T5 (T _{amb} ≤ 46°C)
	Flameproof Ex d IIC T5/T6 Gb Ex tb IIIC T95°C Db	---	T5 (T _{amb} ≤ 85°C) T6 (T _{amb} ≤ 69°C)
	Type n Ex nC IIC T5/T6 Gc Ex tc IIIC T95°C Db	---	T5 (T _{amb} ≤ 85°C) T6 (T _{amb} ≤ 69°C)

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Emerson Automation Solutions
Marshalltown, Iowa 50158 USA
Sorocaba, 18087 Brazil
Cernay, 68700 France
Dubai, United Arab Emirates
Singapore 128461 Singapore

www.Fisher.com

