

IECEX Hazardous Area Approvals Fisher™ 3722 Electro-Pneumatic Converter

Hazardous Area Classifications and Special Instructions for “Safe Use” and Installations 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 3710 and 3720 Valve Positioners and 3722 Electro-Pneumatic Converter instruction manual ([D101728X012](#)), 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.

These Special Instruction for “Safe Use” and Installation in Hazardous Location also apply to 3720 positioners.

⚠ WARNING

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

Intrinsically Safe

⚠ WARNING

Substitution of components may impair intrinsic safety.

$-40^{\circ}\text{C} \leq T_a \leq +82^{\circ}\text{C}$; T6 ($T_a \leq +47^{\circ}\text{C}$); T5 ($T_a \leq +62^{\circ}\text{C}$); T4 ($T_a \leq +82^{\circ}\text{C}$)

Entity Parameters: $U_i = 30\text{ V}$, $I_i = 150\text{ mA}$, $P_i = 1.25\text{ W}$, $C_i = 0\text{ nF}$, $L_i = 0\text{ mH}$

Flameproof

⚠ WARNING

Disconnect power before opening.

$-40^{\circ}\text{C} \leq T_a \leq +82^{\circ}\text{C}$; T5 ($T_a \leq +82^{\circ}\text{C}$)

Type n

⚠ WARNING

Disconnect power before opening.

$-40^{\circ}\text{C} \leq T_a \leq +82^{\circ}\text{C}$; T6 ($T_a \leq +82^{\circ}\text{C}$)

Refer to table 1 for approval information.

Table 1. Hazardous Area Classifications⁽¹⁾

Certification	Certification Obtained	Entity Rating	Temperature Code
IECEX	Intrinsically Safe Gas Ex ia IIC T4/T5/T6 Ga	U _i = 30 VDC I _i = 150 mA P _i = 1.25 W C _i = 0 nF L _i = 0 mH	T4 (T _{amb} ≤ 82°C) T5 (T _{amb} ≤ 62°C) T6 (T _{amb} ≤ 47°C)
	Flameproof Gas Ex d IIC T5 Gb	---	T5 (T _{amb} ≤ 82°C)
	Type n Gas Ex nA IIC T6 Gc	---	T6 (T _{amb} ≤ 82°C)

1. These hazardous area classification also apply to 3720 positioners.

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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

