

IECEX Hazardous Area Approvals Fisher™ 3622 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 Fisher 3610J and 3620J Positioners and 3622 Electro-Pneumatic Converter instruction manual ([D200149X012](#)), 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 3620J 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.

Conditions of Certification

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 additional approval information.

Table 1. Hazardous Area Classifications⁽¹⁾

Certificate	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 3620J positioners.

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