

IECEx Hazardous Area Approvals Fisher™ 582i 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 3582 and 3582i Positioners, 582i Electro-Pneumatic Converter, and 3583 Valve Stem Position Transmitter instruction manual ([D200138X012](#)), 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 Instructions for “Safe Use” and Installation in Hazardous Locations also apply to 3582i 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.

$-40^{\circ}\text{C} \leq T_a \leq +71^{\circ}\text{C}$; T6 ($T_a \leq +47^{\circ}\text{C}$); T5 ($T_a \leq +62^{\circ}\text{C}$); T4 ($T_a \leq +71^{\circ}\text{C}$)

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.** $-40^{\circ}\text{C} \leq T_a \leq +71^{\circ}\text{C}; T_6 (T_a \leq +71^{\circ}\text{C})$ **Type n****⚠ WARNING****Disconnect power before opening.** $-40^{\circ}\text{C} \leq T_a \leq +71^{\circ}\text{C}; T_6 (T_a \leq +71^{\circ}\text{C})$

Refer to table 1 for 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} ≤ 71°C) T5 (T _{amb} ≤ 62°C) T6 (T _{amb} ≤ 47°C)
	Flameproof Gas Ex d IIC T6 Gb	---	T6 (T _{amb} ≤ 71°C)
	Type n Gas Ex nA IIC T6 Gc	---	T6 (T _{amb} ≤ 71°C)

1. These hazardous area classification also apply to 3582i positioners.

Neither Emerson, Emerson Automation Solutions, nor any of their affiliated entities assumes responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user.

Fisher is a mark owned by one of the companies in the Emerson Automation Solutions business unit of Emerson Electric Co. Emerson Automation Solutions, Emerson, and the Emerson logo are trademarks and service marks of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

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

www.Fisher.com

