

# ATEX Hazardous Area Approvals Fisher™ 4200 Electronic Position Transmitters

## 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.

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### Note

This information supplements the nameplate markings affixed to the product and the 4200 Instruction Manual ([D200354X012](#)), 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.

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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, or area re-classification.**

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### Special Conditions for Safe Use

#### Intrinsically Safe

*4211 and 4221*

This equipment is intrinsically safe and can be used in potentially explosive atmospheres.

The apparatus must only be connected to a certified associated intrinsically safe equipment and this combination must be compatible as regards intrinsic safety rules.

The electrical parameters of the associated intrinsically safe equipment must not exceed any of the following values:  
 $U_0 \leq 30\text{ V}$ ,  $I_0 \leq 150\text{ mA}$ ,  $P_0 \leq 1\text{ W}$

Maximal ambient temperature:  $-40^\circ\text{C}$  to  $+71^\circ\text{C}$ .

Temperature classification is as follows: T5 at  $T_a \leq +40^\circ\text{C}$ ; T4 at  $T_a \leq +71^\circ\text{C}$

The enclosure of the equipment must not be submitted to mechanical impact or friction.

The threaded entries shall be equipped with cable gland or blanking element certified for the intended use.

**Type n**

4211 and 4221

The threaded entries shall be equipped with cable gland or blanking element certified for the intended use.

**Flameproof**

4210, 4211, 4212, 4215, 4220, 4221, and 4222

No special conditions for safe use.

Refer to table 1 for approval information.

Table 1. Hazardous Area Classifications—ATEX

Certificate	Type	Certification Obtained	Entity Rating	Temperature Code	
ATEX	4211, 4221 (LCIE)	⊕ II 1 GD			
		Intrinsically Safe Gas Ex ia IIC T4/T5 Ga	U <sub>i</sub> = 30 VDC I <sub>i</sub> = 150 mA P <sub>i</sub> = 1.0 W C <sub>i</sub> = 5 nF L <sub>i</sub> = 0 mH	T4 (T <sub>amb</sub> ≤ 71°C) T5 (amb ≤ 40°C)	
		Dust Ex ia IIIC T106°C Da Ex ia IIIC T75°C Da (T <sub>amb</sub> ≤ +40°C) Ex ta IIIC T100°C Da Ex ta IIIC T69°C Da (T <sub>amb</sub> ≤ 40°C)	---	---	
		⊕ II 3 GD			
		Type n Gas Ex nA IIC T4 Gc	---	T4 (T <sub>amb</sub> ≤ 71°C)	
		Dust Ex tc IIIC T81°C Dc	---	---	
	4210, 4211, 4212, 4215 4220, 4221, 4222 (SIRA)	⊕ II 2 GD			
		Flameproof Gas Ex db IIC T5/T6 Gb IP66	---	T5 (T <sub>amb</sub> ≤ 71°C) T6 (T <sub>amb</sub> ≤ 56°C)	
		Dust Ex tb IIIC T72°C Db (T <sub>amb</sub> -20°C to 56°C)	---	---	

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