

ATEX Hazardous Area Approvals Fisher™ 3661 Positioners

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 3660 and 3661 Positioners instruction manual ([D101402X012](#)), available from your [Emerson Automation Solutions sales office](#) or at [www.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, or area re-classification.

Special Conditions for Safe Use

Intrinsically Safe

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

The electrical parameters of certified equipment which can be connected to the device must not exceed the following value: $U_0 \leq 30$ Vdc; $I_0 \leq 150$ mA; $P_0 \leq 1.25$ W.

Ambient Temperature:

T6, at $T_{amb} = 47^\circ\text{C}$

T5, at $T_{amb} = 62^\circ\text{C}$

T4, at $T_{amb} = 82^\circ\text{C}$

Type n

The 3661 has an IP44 ingress protection: it is only intended to be installed in an area where a convenient protection is ensured against the entry of solid foreign bodies and liquids which may decrease the safety.

Refer to table 1 for additional approval information.

Table 1. Approval Information

Certificate	Certification Obtained	Entity Rating	Temperature Code
ATEX	Ⓢ II 1 G Intrinsically Safe Gas Ex ia IIC T4/T5/T6 Ga	Ui = 30 VDC Ii = 150 mA Pi = 1.25 W Ci = 0 nF Li = 0 mH	T4 (Tamb ≤ 82°C) T5 (Tamb ≤ 62°C) T6 (Tamb ≤ 47°C)
	Ⓢ II 3 G Type n Gas Ex nA IIC T6 Gc	---	T6 (Tamb ≤ 62°C)

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