



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

TaFI7800-bcd. Miniature Electropneumatic Transducer.

IS / I,II,III / 1 / CDEFG / T4 -40°C < Ta < 80°C - ED-18970; Entity; I/O/AEx ia IIB/ T4 Ta = -40°C to 80°C; 18970; Entity

NI / I, II, III / 2 / ABCD EFG / T6 -40°C < Ta < 40°C - ED-18970; NIFW; Type 4X

Entity Parameters:

$V_{Max} = 28\text{ V}$, $I_{Max} = 100\text{ mA}$, $P_{max} = 0.7\text{ W}$, $C_i = 12\text{ nF}$, $L_i = 0\text{ mH}$.

Nonincendive Field Wiring Parameters:

$V_{Max} = 30\text{ V}$, $I_{Max} = 120\text{ mA}$, $C_i = 0\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$.

a = Electrical connection A or D.

b = Input 0, 4, 5, 7 or 9.

c = Output 01, 02, 03, 04, 05, 06, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25 or 26.

d = P or Blank (Valve Mounting Option).

TaFI7800-bcd. Miniature Electropneumatic Transducer.

IS / I / 1 / CD / T4 -40°C < Ta < 80°C - ED-18970; Entity; I/O/AEx ia IIB/ T4 Ta = -40°C to 80°C; 18970; Entity; NI / I, II, III / 2 / ABCD / T6 -40°C < Ta < 40°C - ED-18970; NIFW

Entity Parameters:

$V_{Max} = 28\text{ V}$, $I_{Max} = 100\text{ mA}$, $P_{max} = 0.7\text{ W}$, $C_i = 12\text{ nF}$, $L_i = 0\text{ mH}$.

Nonincendive Field Wiring Parameters:

$V_{Max} = 30\text{ V}$, $I_{Max} = 120\text{ mA}$, $C_i = 0\text{ }\mu\text{F}$, $L_i = 0\text{ mH}$

a = Electrical connection T or R.

b = Input 0, 4, 5, 7 or 9.

c = Output 01, 02, 03, 04, 05, 06, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25 or 26.

d = P or Blank (Valve Mounting Option).

Equipment Ratings:

Intrinsically Safe Apparatus with entity parameters per installation drawing ED-18970 for use in Class I, II, III, Division 1, Groups, C, D, E, F and G hazardous (Classified) locations and Class I Zone 0 Group IIB hazardous locations; Noncendive for Class I, II, III, Division 2, Groups A, B, C, D, E, F & G hazardous (Classified) locations.

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approved for:

Fairchild Industrial Products Co
Winston-Salem, North Carolina 27103

To verify the availability of the Approved product, please refer to www.approvalguide.com

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	2011
Class 3610	2010
Class 3611	2004
Class 3810	2005
NEMA 250	1991

Original Project ID: 4X3A2.AX

Approval Granted: August 9, 1994

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
2Z7A4.AX	June 12, 1995		
950717	July 17, 1995		
950906	September 6, 1995		
960215	February 15, 1996		
2B7A4.AX	June 3, 1996		
981209	December 9, 1998		
000203	February 3, 2000		
010411	April 11, 2001		
030514	May 14, 2003		
3020724	August 20, 2004		
080411	June 23, 2008		
3044851	July 18, 2013		

FM Approvals LLC


 J. E. Marquedant
 Group Manager, Electrical

18 July 2013
 Date

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