



Member of the FM Global Group

FM Approvals
1151 Boston Providence Turnpike
P.O. Box 9102 Norwood, MA 02062 USA
T: 781 762 4300 F: 781-762-9375 www.fmapprovals.com

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

Two Wire P/I Transducer Single or Dual Channel. Model TaFI8001bcdef.

IS//ABCD/T4 Ta = -40°C to +80°C – EC-18601; Entity;

I/O/AEx ia IIC/T4 Ta = -40°C to +80°C – EC-18601; Entity;

NI//2/ABCD/T6 Ta = -40°C to +76.5°C

Entity Parameters (Per Channel):

Vmax = 28V, Imax = 100mA, Pmax = 0.7W, Ci = 0.013µF, Li = 0mH

a = Electrical connection R or T.

b = Pneumatic input channel one 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

c = Current output channel one 1 or 2.

d = Pneumatic input channel two 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

e = Current output channel two 1 or 2.

f = Option U or blank.

Special Conditions of Use:

1. Part of the enclosure is constructed of non-metallic material. To prevent the risk of electrostatic sparking the enclosure shall only be cleaned with a damp cloth.
2. The apparatus enclosure contains aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

Two Wire P/I Transducer Single Channel. Model TDFI8001abcde.

IS//ABCD/T4 Ta = -40°C to +80°C – EC-18601; Entity;

I/O/AEx ia IIC/T4 Ta = -40°C to +80°C – EC-18601; Entity;

NI//2/ABCD/T6 Ta = -40°C to +76.5°C;

Entity Parameters:

Vmax = 28V, Imax = 100mA, Pmax = 0.7W, Ci = 0.013µF, Li = 0mH

a = Pneumatic input channel one 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

b = Current output channel one 1 or 2.

c = Pneumatic input channel two 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

d = Current output channel two 1 or 2.

e = Option U or blank.

Special Conditions of Use:

1. Part of the enclosure is constructed of non-metallic material. To prevent the risk of electrostatic sparking the enclosure shall only be cleaned with a damp cloth.

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2. *The apparatus enclosure contains aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.*

Two Wire P/I Transducer Single or Dual Channel. Model TAFI8001abcde.

IS/I, II, III/ABCDEFG/T4 Ta = -40°C to +80°C – EC-18601; Entity; Type 4X;

I/O/AEx ia IIC/T4 Ta = -40°C to +80°C – EC-18601; Entity; Type 4X;

NI/I, II, III/2/ABCDEFG/T6 Ta = -40°C to +76.5°C Type 4X;

Entity Parameters (Per Channel):

V_{max} = 28V, I_{max} = 100mA, P_{max} = 0.7W, C_i = 0.013μF, L_i = 0mH

a = Pneumatic input channel one 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

b = Current output channel one 1 or 2.

c = Pneumatic input channel two 00, 01, 02, 03, 04, 05, 06, 10, 11, 12, 13, 14, 15, 16, 20, 21, 22, 23, 24, 25 or 26.

d = Current output channel two 1 or 2.

e = Option U or blank.

Special Conditions of Use:

1. *Part of the enclosure is constructed of non-metallic material. To prevent the risk of electrostatic sparking the enclosure shall only be cleaned with a damp cloth.*
2. *The apparatus enclosure contains aluminum and is considered a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.*

Equipment Ratings:

Intrinsically Safe for Class I, Division 1, Groups A, B, C and D; T4 Ta = -40°C to +80°C hazardous (classified) locations in accordance with drawing EC-18601; Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G; T4 Ta = -40°C to +80°C hazardous (classified) locations in accordance with drawing EC-18601, Intrinsically Safe for Class I, Zone 0, Group IIC; T4 Ta = -40°C to +80°C hazardous (classified) locations in accordance with drawing EC-18601; Nonincendive for Class I, Division 2, Groups A, B, C and D; T6 Ta = -40°C to +76.5°C hazardous (Classified) locations. Nonincendive for Class I, II and III Division 2, Groups A, B, C, D, E, F and G; T6 Ta = -40°C to +76.5°C hazardous (Classified) locations. Additionally the Model TAFI8001 has an environmental rating of Type 4X.

FM Approved for:

Fairchild Industrial Products Company
Winston-Salem, NC, United States



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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
ANSI/ISA 60079-0	2009
ANSI/ISA 60079-11	2012
ANSI/NEMA 250	1991

Original Project ID: 1W1A8.AX

Approval Granted: December 16, 1992

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
930212	February 12, 1993		
941103	November 3, 1994		
941212	December 12, 1994		
5Z4A4.AX	August 30, 1995		
950830	August 30, 1995		
980922	September 22, 1998		
000203	February 3, 2000		
010702	July 2, 2001		
040806	August 6, 2004		
3044493	September 16, 2013		
3050974	February 7, 2014		
140304	March 12, 2014		

FM Approvals LLC



 J. E. Marquedant
 Group Manager, Electrical

12 March 2014

 Date

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