

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0248X
3. **Equipment:** PAX1
(Type Reference and Name) Linear Actuator
4. **Name of Listing Company:** Fairchild Industrial Products Co
5. **Address of Listing Company:** 3920 W Point Blvd
Winston-Salem NC
27103
United States
6. The examination and test results are recorded in confidential report number:

3057374 dated 14th November 2016
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2011, FM Class 3615:2006, FM Class 3616:2013, FM Class 3810:2005,
ANSI/ISA 60079-0:2013, ANSI/UL 60079-1:2015, ANSI/ISA 60079-31: 2015, ANSI/NEMA 250:2014,
ANSI/IEC 60529:2004
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

Certificate issued by:

J. E. Marquedant
Manager, Electrical Systems

14 November 2016

Date

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

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



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10. Equipment Ratings:

Explosionproof for Class I, Division 1, Groups A, B, C and D, T6...T5; Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G, T6...T5; Flameproof for Class I, Zone 1, AEx db IIC T6...T5 Gb; Protection by enclosure Zone 21, AEx db IIIC T85°C...T100°C Db Hazardous (Classified) Locations, Indoors and Outdoors (Type 4X/6P, IP66/68); with an ambient temperature range of -40°C to +65°C or +70°C.

11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T6...T5

Class I, Zone 1, AEx db IIC T6...T5

Class II/III, Division 1, Groups E, F, G; T6...T5

Zone 21 AEx db IIIC T85°C...T100°C

T6 (T85°C) -40°C≤Ta≤+65°C, T5 (T100°C) -40°C≤Ta≤+70°C

Type 4X/6P, IP66/68

12. **Description of Equipment:**

The PAX1 Series Linear Actuator can be used alone or it can be paired with a variety of Fairchild time proven pressure regulators. Power is provided by 11-30VDC and position is controlled by a 1-5 Vdc, 4-20mA or pulse signals. The actuator is designed to lock in last place if power or signal are lost. The PAX1 is ideal when precise position control is required, and it has an optional analog feedback that transmits current position to the operator. Adjustable motor speeds, customer set position limits and alarms are standard features. The PAX1 is available in a variety of configurations and NAMUR mounting interface allow it to be flexible for use as an industrial actuator. The PAX1 series Linear Actuator consists of an electronics housing with a thread-on cover and a base which is inserted through the housing forming a cylindrical joint. The housing is with one ½ or ¾ inch NPT opening.

Ratings – PAX1 operates at 11-30 Vdc and is rated for use in an ambient temperature range of -40°C to +65°C or +70°C.

PAX1Fab

a = Conduit Port Size 4 or 6.

b = Configuration 1 or 2.

13. **Specific Conditions of Use:**

1. Explosionproof certified seals are required within 18" for Groups A, B, C and D or within 2" for Group IIC.
2. PAX1 includes flamepath joints. Consult manufacturer if repair of the flamepath joints is necessary.
3. Use heat resisting cables rated ≥110°C
4. Refer to the manufacturer's instructions to reduce the potential of an electrostatic charging hazard on the equipment enclosure.

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14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
14 th November 2016	Original Issue.

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