

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM18US0186X
- Equipment:** ICOT 5000 Series Digital Positioner
(Type Reference and Name)
- Name of Listing Company:** Westlock Controls Corporation
- Address of Listing Company:** 280 N Midland Ave, Ste 258
Saddle Brook NJ 07663
United States
- The examination and test results are recorded in confidential report number:

3016073 dated 17th November 2003
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2022, FM Class 3610:2021, FM3611:2021, FM Class 3810:2021 ANSI/UL 121201:221, ANSI/UL 61010-1: 2012, ANSI/UL 60079-0:2020, ANSI/UL 60079-11:2014, ANSI/NEMA 250:1991
- 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.
- 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.
- Equipment Ratings:**

Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F and G T4 Ta = +85°C with entity parameters; Nonincendive for Class I, II, III, Division 2, Groups A, B, C, D, E, F and G T4 Ta = +85°C Hazardous (Classified) Locations, Type 4.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

8 November 2022

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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11. The marking of the equipment shall include:

ICOT 5 a b c IS E d e f g h i. Valve Positioner.

Class I, II, III, Division 1, Groups A, B, C, D, E, F and G, T4 Ta = +85°C – WD10836; Entity; Type 4

ICOT 5 a b c NI E d e f g h. Valve Positioner.

Class I, II, III, Division 2, Groups A, B, C, D, E, F and G T4 Ta = +85°C; Type 4

ICOT 5 a b c IS E d e f g h i - 110. Valve Positioner.

Class I, II, III, Division 1, Groups C, D, E, F and G, T4 Ta = +85°C – WD10836; Entity; Type 4

12. **Description of Equipment:**

General: The ICOT Valve Positioner is an electro-pneumatic servo system that continuously controls the position of a valve based on a 4 to 20 mA input signal. The Valve Positioner is a loop powered device that derives its power directly from the input current loop. The instrument measures valve position via a noncontact Hall Effect sensor and controls the valve through a current to pressure transducer. The ICOT 5000 Series outputs a 4 to 20 mA signal proportional to the position measured.

Electrical Ratings: The nominal equipment ratings for the device are the following, V input = 9 to 32 Vdc, I input = 25 mA current loop, maximum operating pressure = 120 psi.

ICOT 5 a b c IS E d e f g h i. Valve Positioner. Entity Parameters:

a = Base Model: 2, 3

b = Actuator types: 1, 3

c = Mounting Style: 0, 5, 7, 8

d = Supply Pressures: H, L, V.

e = Calibration/Communication: B, K

f = Conduit Entries: A, B

g = Limit Switch Option: 0, 2

h = Position Transmitter Output: A, B

i = Pneumatic Connection: B, F, N

Entity Parameters:

Inputs (+) and (-):

Ui =30 V, Ii = 100 mA, Pi = 0.75 W, Ci =0, Li =17.25µH

Outputs 5 and 6:

Ui =30 V, Ii = 100 mA, Pi = 0.75 W, Ci =0, Li =17.25µH

Auxiliary Outputs 3 and 4:

Vmax =30 V, Imax = 200 mA, Pmax = 1.5 W, Ci =0, Li =0

Auxiliary Outputs 1 and 2:

Vmax =30 V, Imax = 200 mA, Pmax = 1.5 W, Ci =0, Li =0

ICOT 5 a b c NI E d e f g h i. Valve Positioner.

a = Base Model: 2, 3.

b = Actuator types: 1, 3

c = Mounting Style: 0, 5, 7, 8.

d = Supply Pressures: H, L, V

e = Calibration/Communication: B, K

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f = Conduit Entries: A, B
g = Position Transmitter Output: A, B
h = Pneumatic Connection: B, F, N

ICOT 5 a b c IS E d e f g h i - 110. Valve Positioner.

a = Base Model: 2, 3.
b = Actuator types: 1, 3
c = Mounting Style: 0, 5, 7, 8.
d = Supply Pressures: H, L, V.
e = Calibration/Communication: B, K.
f = Conduit Entries: A, B.
g = Limit Switch Option: 0, 2
h = Position Transmitter Output: A, B.
i = Pneumatic Connection: B, F, N.

Entity Parameters:

Inputs (+) and (-):

Ui =30 V, li = 100 mA, Pi = 0.75 W, Ci =0, Li =17.25µH

Outputs 5 and 6:

Ui =30 V, li = 100 mA, Pi = 0.75 W, Ci =0, Li =17.25µH

Auxiliary Outputs 3 and 4:

Ui =30 V, li= 200 mA, Pi = 1.5 W, Ci =0, Li =0

Auxiliary Outputs 1 and 2:

Ui =30 V, li = 200 mA, Pi = 1.5 W, Ci =0, Li =0

13. Specific Conditions of Use:

The powder coated surface of the Valve Positioner may store electrostatic charge and become a source of ignition in applications with a low relative humidity <~30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust, or oil. Cleaning of the painted surface should only be done with a damp cloth.

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
17 th November 2003	Original Issue.
24 th August 2018	<u>Supplement 3:</u> Report Reference: – RR214496 dated 24 th August 2018. Description of the Change: Minor changes to installation manual and conditions of use.

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8 th November 2022	Supplement 4: Report Reference: – RR234138 dated 8 th November 2022. Description of the Change: Update certificate to template, update standards to latest editions, update to model codes, correction to FISCO Parameters, minor drawing updates.
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