

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM20US0043X

3. **Equipment:** Rotex Smart Positioner POSIDAPT Series
(Type Reference and Name)

4. **Name of Listing Company:** Rotex Manufacturers and Engineers Private Limited

5. **Address of Listing Company:** R852/853, TTC Industrial Area, MIDC Rabale, Navi Mumbai
400 701, INDIA

6. The examination and test results are recorded in confidential report number:

PR460998 dated 24th November 2021

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

FM Class 3600:2018, FM Class 3610:2018, FM Class 3611:2018, FM Class 3810:2018,
ANSI/UL 61010-1:2018, ANSI/ISA 60079-0:2019, ANSI/UL 60079-11:2018, ANSI/ISA 60079-15:2013,
ANSI/UL 121201:2017, ANSI/IEC 60529:2014

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.

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

24 November 2021

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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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.

10. Equipment Ratings:

Intrinsically safe for Class I, Division 1, Groups A, B, C and D; and Class I, Zone 0, AEx ia IIC T5/T6, Non-Incendive for Class I, Division 2, Groups A, B, C and D; and Class I, Zone 2, AEx nA IIC T5/T6 hazardous locations, indoors and outdoors (IP66) with an ambient temperature rating of -25°C to +78°C.

11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T* Ta = -25°C to +78°C; IP66

Class I, Zone 0, AEx ia IIC; T* Ta = -25°C to +78°C; IP66

Class I, Division 2, Groups A, B, C and D; T* Ta = -25°C to +78°C; IP66

Class I, Zone 2, AEx nA IIC; T* Ta = -25°C to +78°C; IP66

T*: T5 at -25°C to +78°C; T6 at -25°C to +60°C

12. **Description of Equipment:**

Description of Equipment or Protective System:

The Rotex Smart Positioner POSIDAPT Series is an electronically configurable loop powered device, Digital Positioner operating range of 4-20 mA or 0-20 mA (with External 24 Vdc) and various communication protocol such as HART, Foundation Fieldbus. The Positioner enclosure is constructed from Aluminum alloy or Stainless steel and with Polycarbonate (Makrolon®) or Aluminum alloy or Stainless steel cover. The enclosure is in two halves & held together by 4 stainless steel fasteners.

Operation Temperature Ranges:

The ambient operating temperature range of the Rotex Smart Positioner POSIDAPT Series is -25°C to 78°C.

RTXabcdefghijk, Smart Valve Positioner

a = Model: 5, 6, 7, 8 or 9

b = Enclosure: 5, 6 or 7

c = Servo: 1, 2, 3, 4

d = Port Connection: 2G or 2R

e = Communication: * or H

f = Module: *, P, A or B

g = Cable Entry: 4R or 3M

h = -25°C to +78°C

i = Certification: A

j = Remote Mount: *, RM03, RM04, RM07, RM10, RM20, RM30 or RM45

k = Accessories: *, RC001, PS100, PS200, PL100, or PL200

13. **Specific Conditions of Use:**

1. Potential electrostatic charging hazard. Clean only with a damp cloth.

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- 2. When used within a Zone 0 location, cast-aluminum enclosures shall be installed in such manner as to prevent the possibility of sparks resulting from friction or impact against the enclosure.
- 3. The positioner is for installation in locations providing protection against the entry of moisture or dust.

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
24 th November 2021	Original Issue.

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