

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment or protective systems intended for use in potentially explosive atmospheres –
Directive 2014/34/EU

(3) EU Type Examination Certificate Number: KLEX 25 ATEX 0013X Issue: 0

(4) Product: Rotex Smart Positioner POSIDAPT
Model: RTX Series (for detailed model designation refer to product description)

(5) Manufacturer: Rotex Manufacturers and Engineers Private Limited

(6) Address: R-852/853, MIDC, TTC Industrial Area, Rabale,
Navi Mumbai - 400 701, Maharashtra, INDIA

(7) The product and any acceptable variation, thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The certification body KL Exert Certification, notified body No. 3057 in accordance with Article 17 and Article 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of product or protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential report no.: KLEX 25/01-013

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

(11) This EU - Type Examination Certificate relates only to the technical design of the specified product in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

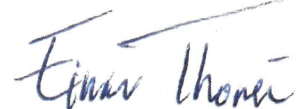
(12) The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 II 2 G Ex db IIC T6 Gb ($-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$)
II 2 G Ex db IIC T5 Gb ($-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$)
II 2 D Ex tb IIIC T85°C Db IP66 ($-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$)

Managing Director:



Einar Thorén



Date of issue: 30.05.2025



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(13) SCHEDULE

(14) EU - Type Examination Certificate: KLEX 25 ATEX 0013X Issue: 0

(15) Description:

A "Rotex Smart Positioner POSIDAPT" is a sophisticated device used in industrial process control to accurately control the position of a valve. Rotex Smart Positioner POSIDAPT is designed to ensure that a control valve reaches and maintains the desired position, as dictated by a control system. They act as an intermediary between the control system and the valve actuator.

Electronic part of Rotex Smart Positioner POSIDAPT is enclosed in the flame proof enclosure with threaded cover (M190 x 1.5P) made up with stainless steel ASTM A351 CF8M consisting glass windows. Rotex Smart Positioner POSIDAPT is suitable for IIC gas group. Rotex Smart Positioner POSIDAPT enclosure consists of 2 numbers of threaded entry holes of size M20 X 1.5P or 1/2" NPT for electrical field connections and 4 number of pneumatic entry ports or size either 1/4" BSP or 1/4" NPT.

Flame arrestors (sinter discs) of size 3mm thick with diameter of 25mm are installed on the pneumatic ports. These flame arrestors are fixed by using the adhesive and additionally retained by the manifold and support mesh. Enclosure also contains an entry internally at the bottom for breather (which contains multistep joint) and exhausts to the opposite side of cable entries externally. O-rings used between manifold and enclosure housing.

Equipment is tested and assessed for a lower ambient temperature of -40°C and it can also be marked with lower ambient of -20°C.

For remote mount option, Rotex Smart Positioner POSIDAPT will be supplied along with the cable. Cable termination with positioner is the customer's responsibility.

The measuring function according to annex II paragraph 1.5.5 of the directive is not matter of this EU-type examination.

Model Designation:

RTX-7-4-1-2G-H-P-4R-FS-A



A	
SERIES	
POSIDAPT	RTX

B (ONLY CHANGES IN SOFTWARE, NO CHANGE IN DESIGN AFFECTING Ex INTEGRITY)	
MODEL	
IPST	5
EXPERT	7
SUPER	8
ULTRA	9

C	
ENCLOSURE	
Ex d – STAINLESS STEEL COVER, STAINLESS STEEL BODY	4

D	
SERVO	
DOUBLE ACTING / SINGLE ACTING	1*
SINGLE ACTING (PORT 4)**	2
SINGLE ACTING (PORT 2)**	3
FAIL FREEZE	4



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E	
PNEUMATIC PORT CONNECTION	
1/4" BSP	2G
1/4" NPT	2R

F	
COMMUNICATION	
NONE	*
HART	H
FOUNDATION FIELDBUS	F

G	
MODULE	
NONE	*
POSITION TRANSMITTER (4 TO 20 mA)	P
ALARM (DIGITAL I/O)	A
POSITION TRANSMITTER (4 TO 20 mA) + ALARM (DIGITAL I/O)	B

H	
CABLE ENTRY	
1/2" NPT (F)	4R
M20 X 1.5 (F)	3M

I	
TEMPERATURE	
-20°C to +80°C (-4°F to +176°F) - T5	*
-20°C to +70°C (-4°F to +158°F) - T6	
-40°C to +80°C (-40°F to +176°F) - T5	FS
-40°C to +70°C (-40°F to +158°F) - T6	

J	
CERTIFICATION##	
NONE	*
ATEX	A

K	
REMOTE MOUNT#	
NONE	*
3 METRES	RM03
5 METRES	RM05
7 METRES	RM07
10 METRES	RM10
20 METRES	RM20
30 METRES	RM30
45 METRES	RM45
50 METRES	RM50

ACCESSORIES ORDERING CODE	
COUPLER FOR ROTARY ACTUATOR ISO 5211	RC001
LINKAGE FOR STROKE UP TO 100MM, PIN ON STEM	PS100
LINKAGE FOR STROKE UP TO 200MM, PIN ON STEM	PS200
LINKAGE FOR STROKE UP TO 100MM, PIN ON LEVER	PL100
LINKAGE FOR STROKE UP TO 200MM, PIN ON LEVER	PL200



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BRACKET TYPE 1 KIT-MS	RC002
BRACKET TYPE 1 KIT-SS304	RC003
BRACKET TYPE 2 KIT-MS	RC004
BRACKET TYPE 2 KIT-SS304	RC005
IPTR MOUNTING KIT FOR ROTARY ACTUATOR	RC006
COUPLER FOR SMART POSITIONER – CYLINDER APPLICATION	RC007

SPECIAL VERSION	
NONE	*
SPECIAL CUSTOMIZATION	SUXXX

Routine test: The smart positioner has not been subjected to 4 times overpressure test and hence manufacturer needs to conduct routine overpressure test at 16.8 bar on each unit for the period of 10 seconds in accordance with clause 16.1.2 of EN 60079 -1: 2014.

(16) Report:

- The examination and test results are recorded in confidential evaluation report no.:

Issue/Date	Evaluation report	Comment
Issue 0 on 30.05.2025	KLEX 25/01-013	The release of the prime certificate.

(17) Specific conditions of use:

1. The manufacturer has maintained more number of thread engagement of flameproof joint than required by the standard. The user must refer to manufacturer before carrying out any repair or refurbishment to the equipment. The flame path thread engagement observed in approved drawing must never be modified. User to ensure all available threads for cover and cable entries are fully engaged and grub screw tightened wherever applicable.
2. Care should be taken during installation and cleaning to avoid risk of ignition due to electro-static discharge. Cleaning of non-metallic surface must be done with a damp cloth.
3. Where auxiliary apparatus is fitted that is not covered by this certificate the installer and/or user, as appropriate, must ensure that it is suitable for the conditions of use and that it does not invalidate this certification.
4. Smart positioner should not be energized without servo valve assembly is in place inside the Ex-d enclosure.
5. When single acting actuator is used then one of the air out pneumatic port will be closed by appropriate blanking plug.
6. It shall be ensured that the air supply to the pneumatic ports is taken from a non-hazardous area and shall not contain flammable gases.

(18) Essential Health and Safety Requirements:

Met by compliance with the standards mentioned in item (9) and evaluation report in item (16).

(19) Remarks and additional information (Drawings and documents):

Operating Manual number: 1-01-04-C-09807- REV 00

Technical Documents				
Title:	Drawing No.:	No. of sheets	Rev. Level:	Date:
EXD SMART POSITIONER (POSIDAPT SERIES) ASSEMBLY	1-01-04-C-14789	03	00	23.05.2025

END OF DOCUMENT