



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx KLCS 25.0012X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2025-06-10		
Applicant:	Rotex Manufacturers and Engineers Private Limited R-852/853, MIDC, TTC Industrial Area, Rabale, Maharashtra. Navi Mumbai 400 701 India		
Equipment:	Rotex Smart Positioner POSIDAPT, Model: RTX Series		
Optional accessory:			
Type of Protection:	Protection by flameproof enclosure "d" and dust ignition protection by enclosure "t"		
Marking:	Ex db IIC T6 Gb (-40°C ≤ Tamb ≤ +70°C) Ex db IIC T5 Gb (-40°C ≤ Tamb ≤ +80°C) Ex tb IIIC T85°C Db IP66 (-40°C ≤ Tamb ≤ +80°C)		

Approved for issue on behalf of the IECEx
Certification Body:

Vikram Paranjpe

Position:

Dy. Director (Operations)

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Karandikar Laboratories Certification Services
Gat No. 142, Boisar Chillar Rd.,
Opp. Union Park, At Betegaon,
Boisar (E), Tal- Palghar
Maharashtra 401501
India





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Manufacturer: **Rotex Manufacturers and Engineers Private Limited**
R-852/853, MIDC, TTC Industrial Area,
Rabale, Maharashtra.
Navi Mumbai 400 701
India

Manufacturing locations: **Rotex Manufacturers and Engineers Private Limited**
R-852/853, MIDC, TTC Industrial Area,
Rabale, Maharashtra.
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India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[IN/KLCS/ExTR25.0013/00](#)

Quality Assessment Report:

[IN/KLCS/QAR23.0008/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Electrical Rating: 30VDC, 110mA, 1 Watt max. The equipment carries degree of protection IP66 and found to be comply with IEC 60529.

For Model Designation details refer ANNEX to IECEX KLCS 25.0012X

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.

Annex:

[ANNEX to IECEX KLCS 25.0012X.pdf](#)



KL Certification Services

(A Division of Karandikar Laboratories Pvt. Ltd.)

FC 019 Rev. 00

ANNEX to IECEx KLCS 25.0012X, Issue No. 00

Date: 10.06.2025

Model Designation: RTX Series

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

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



ANNEX to IECEx KLCS 25.0012X, Issue No. 00

Date: 10.06.2025

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##	
IECEx	I

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
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

END OF DOCUMENT