



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 25.0057X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-02-09

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 RTX 5/7/8/9 Series**

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Intrinsic safety "i" and Protection by enclosure "t"**

Marking: **For model with enclosure no. 9 :**
Ex db ia IIC T6/T5 Gb $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
Ex ia tb IIIC T85°C Db IP66 $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
Ex ia IIC T6/T5 Ga $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
Ex ia IIIC T₂₀₀ 80 °C...100 °C Da $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
For model with enclosure no. 6 & 7:
Ex ia IIC T6/T5 Ga $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
Ex ia IIIC T₂₀₀ 80 °C...100 °C Da $(-40^{\circ}\text{C} \leq \text{Tamb} \leq +^{**}\text{C})$
(** - for detailed ambient temperature range refer to Thermal data)

Approved for issue on behalf of the IECEx
Certification Body:

Ravi Paranjpe

Position:

Director (Operations)

Signature:
(for printed version)

Date:
(for printed version)

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Gat No. 142, Boisar Chillar Rd.,
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Boisar (E), Tal- Palghar
Maharashtra 401501
India





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Page 2 of 3

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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:

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 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
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/ExTR25.0064/00](#)

Quality Assessment Report:

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



IECEX Certificate of Conformity

Certificate No.: **IECEX KLCS 25.0057X**

Page 3 of 3

Date of issue: 2026-02-09

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Rotex Smart Positioner POSIDAPT is designed to use in industrial process control to ensure that a control valve reaches and maintains the desired position precisely, as dictated by a control system. They act as an intermediary between the control system and the valve actuator.

For model with enclosure no. 7 & 9: 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.

There are electronics boards mounted inside this housing to control/monitor the operation of the positioner which have been assessed for type of protection Ex ia. There is a provision to connect gauge block on pneumatic ports for pressure indication purpose. This gauge block is made of Stainless steel (SS316) material.

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 3 mm thick with diameter of 25 mm 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 are used between manifold and enclosure housing. For remote mount option, Rotex Smart Positioner POSIDAPT will be supplied along with the cable. Cable termination with positioner is the customer's responsibility.

For model with enclosure no. 6 : Housing and cover made of an aluminium alloy (ADC12 / LM6) is provided with M6 screws on four corners for tightening cover on housing. Both aforesaid cover and enclosure are sealed using a gasket. The cover has a flat glass window to view display without opening the cover. The housing is provided with two threaded cable entries of size M20x1.5P or 1/2" NPT for external connections. The housing is also provided with three pneumatic ports of size 1/4" BSP or 1/4" NPT, one for input and another two for output.

There is a provision to connect gauge block on pneumatic ports for pressure indication purpose. This gauge block is made of Stainless steel (SS316) material with powder coating like hosing & cover. There are electronics boards mounted inside this housing to control/monitor the operation of the positioner.

The enclosure of "Positioner" provide an ingress protection IP2X to the electronics board inside it, additionally whole electronics board is encapsulated to eliminate any environmental effect on electronics and also to eliminate gas/dust contact with electronics.

For Thermal data and Model designation details refer ANNEX to IECEX KLCS 25.0057X

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Smart Positioner to be supplied power through certified Ex ia barrier having suitable appropriate output ratings.
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. Smart positioner needed to be thermally isolated from any external source of heat so that the temperature on the surface of the enclosure does not exceed 80°C.
4. The equipment shall be mounted in horizontal position.
5. For model with enclosure no. 6: Smart positioner enclosure is made of light metals, and needs to be protected from ignition hazard due to impact and friction.
6. For model with enclosure no. 9:
 - 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.
 - 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.
 - Smart positioner should not be energized without servo valve assembly is in place inside the Ex-d enclosure.
 - When single acting actuator is used then one of the air out pneumatic port will be closed by appropriate blanking plug.
 - 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. Connections with a torque value of 0.5 Nm as specified by the manufacturer.
 - Dust layers shall be prevented from building up on the outside surface of the enclosure, and the enclosure shall be routinely cleaned.

Annex:

[ANNEX to IECEX KLCS 25.0057X.pdf](#)



ANNEX to IECEx KLCS 25.0057X, Issue No. 00

Date: 09.02.2026

Model designation:

Table	A	B	C	D	E	F	G	H	I	J	K	
Example Code	RTX	9	6	1	2R	H	P	4R	*	A	*	RC001
	PRODUCT CODE: A-B-C-D-E-F-G-H-I-J-K; example: RTX-9-6-1-2R-H-P-4R-A-RC001											
A	SERIES		POSIDAPT								RTX	
B	MODEL		IPST – PARTIAL STROKING DEVICE								5	
			EXPERT – BASIC DIAGNOSTICS								7	
			SUPER – OFFLINE TEST AND DIAGNOSTICS								8	
			ULTRA – ONLINE, OFFLINE TEST AND EXTENDED DIAGNOSTICS								9	
C	ENCLOSURE		Ex ia ALUMINIUM COVER, ALUMINIUM BODY								6	
			Ex ia STAINLESS STEEL COVER, STAINLESS STEEL BODY								7	
			Ex d Ex ia STAINLESS STEEL COVER, STAINLESS STEEL BODY								9	
D	SERVO		DOUBLE ACTING / SINGLE ACTING								1	
			SINGLE ACTING (PORT4)**								2	
			SINGLE ACTING (PORT2)**								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	
I	TEMPERATURE		-20 °C to +80 °C (-4 °F to +176 °F)								*	
			-20 °C to +70 °C (-4 °F to +158 °F)								*	
			-40 °C to +80 °C (-40 °F to +176 °F)								FS	
			-40 °C to +70 °C (-40 °F to +158 °F)								FS	
J	CERTIFICATION		NONE								*	
			ATEX								A	
			PESO								C	
			IECEx								I	
K	REMOTE BLOCK		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			NONE								*	
			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	



ANNEX to IECEx KLCS 25.0057X, Issue No. 00

Date: 09.02.2026

ACCESSORIES	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
	LINKAGELESS ROTARY	LLROT
	LINKAGELESS LINEAR	LLLIN
SPECIAL VERSION	NONE	*
	SPECIAL CUSTOMIZATION	SUXX
Note 03: 1. FOR REMOTE MOUNT OPTION, SMART POSITIONER WILL BE SUPPLIED ALONG WITH THE CABLE. CABLE TERMINATION WITH POSITIONER IS THE CUSTOMER'S RESPONSIBILITY. 2. SPECIAL VERSION WILL INCLUDE SPECIFIC CUSTOMER REQUIREMENTS SUBJECT TO ASSESSMENT THAT THE Ex INTEGRITY IS NOT VOIDED AND REQUIREMENTS OF IEC 60079-0:2018, IEC 60079-1:2014, IEC 60079-11:2023 and IEC 60079-31:2022. ROTEX WILL MAINTAIN RECORDS OF SUCH VERSIONS AND THE REVIEW THAT THE Ex PROTECTION IS NOT VOIDED 3. * - MAXIMUM AMBIENT TEMPERATURE CAN VARY BASED ON THE CERTIFICATION. PLEASE REFER PRODUCT NAMEPLATE FOR APPLICABLE TEMPERATURE RANGE		

Thermal data:

Type of protection	Temperature class / Maximum surface temperature	Ambient temperature range
Ex db ia IIC	T6	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$
	T5	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$
Ex ia tb IIIC	T85°C	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +75^{\circ}\text{C}$
Ex ia IIC	T6	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$
	T5	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$
Ex ia IIIC	T ₂₀₀ 80°C	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$
	T ₂₀₀ 100°C	$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$

END OF DOCUMENT