



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 25.0008X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-07-23

Applicant: **Rotex Manufacturers and Engineers Private Limited**
R-852/853
TTC Industrial Area
MIDC Rabale
Navi Mumbai 4007001
India

Equipment: **Positioner POSIDAPT Series, Model: RTX3/4 series**

Optional accessory:

Type of Protection: **Intrinsic Safety "i"**

Marking: Ex ia IIC T6 Ga (-40 °C ≤ Ta ≤ +60 °C)
Ex ia IIC T5 Ga (-40 °C ≤ Ta ≤ +80 °C)
Ex ia IIIC T₂₀₀ 80 °C Da (-40 °C ≤ Ta ≤ +60 °C)
Ex ia IIIC T₂₀₀ 100 °C Da (-40 °C ≤ Ta ≤ +80 °C)

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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Certificate issued by:

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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.
Navi Mumbai 400 701
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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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/ExTR25.0009/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Rotex Positioner POSIDAPT Series RTX3/4 is an electronically configurable loop powered Digital Positioner with an operating range of 4-20 mA. Elite version is with HART communication interface and prime version is without HART communication interface.

Housing and cover made of an aluminium alloy ADC12, 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 with different sizes of gauges for pressure indication purpose. This gauge block is made of same material (ADC12) with powder coating like housing & cover.

There are electronics boards mounted inside this housing to control/monitor the operation of the positioner.

The aluminium ADC12 enclosure of "Positioner" provide an ingress protection 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.

Electrical ratings:

Electrical Parameters 4-20 mA Input port (11,12): $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 750\text{ mW}$, $C_i = \text{Nil}$, $L_i = \text{Nil}$

Electrical Parameters position transmitter port (21,22): $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 750\text{ mW}$, $C_i = \text{Nil}$, $L_i = \text{Nil}$

For Model designation refer Annex to IECEX KLCS 25.0008X

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Cleaning of the surface shall only be done with wet cloth to eliminate Electro Static Discharge risk.
- The POSIDAPT main electronics enclosure contains aluminium and is considered to present a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.
- The POSIDAPT shall be installed in such way that danger of mechanical impact on glass window is avoided.

Annex:

[ANNEX TO IECEX KLCS 25.0008X.pdf](#)



ANNEX TO IECEx KLCS 25.0008X, Issue No. 0

Date: 21.07.2025

Model Designation:

ORDERING CODE: **RTX-4-6-1-2R-H-P-4R-FS-A-G1**



A	SERIES	POSIDAPT	RTX
B	MODEL	PRIME	3
		ELITE	4
C	ENCLOSURE	Ex ia ALUMINIUM COVER AND HOUSING	6
D	SERVO	DOUBLE ACTING / SINGLE ACTING	1
E	PNEUMATIC PORT CONNECTION	1/4" BSP	2G
		1/4" NPT	2R
F	COMMUNICATION	NONE	*
		HART	H
G	MODULE	NONE	*
		POSITION TRANSMITTER (4 to 20 mA)	P
H	CABLE ENTRY	1/2" NPT (F)	4R
		M20 X 1.5 (F)	3M
I	TEMPERATURE	-40°C to +60°C (-40°F to +140°F) – T6 -40°C to +80°C (-40°F to +176°F) – T5	FS
J	CERTIFICATION	NONE	*
		ATEX	A
		IECEx	I
K	GAUGE BLOCK	NO GAUGE BLOCK	*
		GAUGE WITH 30 MM GAUGES (SS)	G1
		GAUGE WITH 40 MM GAUGES (SS)	G2
		GAUGE WITH 40 MM GAUGES (MS)	G3
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

END OF DOCUMENT