

(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 0009 X** Issue: 0
- (4) Product: **Positioner, Type: POSIDAPT Series RTX3/4**
- (5) Manufacturer: **Rotex Manufacturers and Engineers Private. Limited.**
- (6) Address: **R852/853, TTC Industrial Area, Rabale MIDC, Navi Mumbai, Maharashtra, India. 400701**
- (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 25/01-009**
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018, EN 60079-11: 2012
- (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. Holders of EU type examination certificate are required to comply with the production control requirements defined in Article 13 of Directive 2014/34/EU.
- (12) The marking of the product shall include the following



II 1 G Ex ia IIC T6 Ga (-40 °C ≤ Ta ≤ +60 °C)
II 1 G Ex ia IIC T5 Ga (-40 °C ≤ Ta ≤ +80 °C)
II 1 D Ex ia IIIC T₂₀₀ 80°C Da (-40 °C ≤ Ta ≤ +60 °C)
II 1 D Ex ia IIIC T₂₀₀ 100°C Da (-40 °C ≤ Ta ≤ +80 °C)

Managing Director:

Einar Thorén



Date of issue: 22/08/2025

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Extracts or modifications must be authorized by KL Exert Certification.



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KLEX 25 ATEX 0009 X, Issue No. 0

General product information:

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 smart 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.

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

Model Designation:

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

A B C D E F G H I J K

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



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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): $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 750\text{ mW}$, $C_i = \text{Nil}$, $L_i = \text{Nil}$

Routine test:

Nil

(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: 1-01-05-D-11562 Rev 0 Ex ia

Technical Documents				
Title	Drawing No.	No. of sheets	Rev. Level	Date
Circuit Schematics	1-01-05-C-12332	7	1	23.07.2025
PCB Gerber	1-01-05-C-11752	13	0	30.12.2024
BOM	1-01-05-C-11753	7	0	30.12.2024
GA Drawing	1-01-05-C-12322	8	1	23.07.2025
Label Drawing	1-01-05-C-12331	1	2	21.08.2025
Potting Procedure	PP-W-01	1	2	10.03.2024
Circuit Schematics	1-01-05-C-12332	7	1	23.07.2025

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