



Certificate no. TAI-FS-C-25-0040

Product description WE HEREBY CERTIFY THAT
Pneumatic / hydraulic compact scotch-yoke spring return and double acting actuator

Models **Series RC**

Manufacturer **Rotork Sweden AB**
Kontrollvägen, 15
791 22 Falun
Sweden

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS
IEC 61508 Parts 1–7:2010

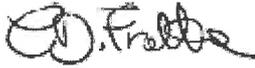
AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION SET OUT IN THE ABOVE-MENTIONED STANDARDS

Assessment report no. TAI-FS-R-25-0041

Expiry date 29.09.2028

Issue date 30.09.2025

TUV AUSTRIA ITALIA
30.09.2025, Monte Roberto (AN)


Ing. Crescenzo Di Fratta

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TÜV AUSTRIA HOLDING AG Deutschstrasse 10, A-1230, Vienna, Austria
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Annex to certificate no. TAI-FS-C-25-0040

Type	A
HFT	0
Safety functions	<u>Spring return actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the spring, with power fluid exhausted from the cylinder through the control system <u>Double acting actuators:</u> 1. Delivery of a full stroke ($90^\circ \pm$ tolerance) driven by the piston of cylinder, powered by the specified medium working pressure
Mode of operation	Low Demand Mode

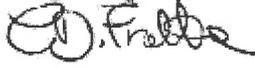
Random failure rates				
Configuration	Safety function	λ_{DU} [1/h]	λ_{DD} [1/h]	λ_S [1/h]
Series RC spring return - No PST	1	1,37E-08	0,00E+00	0,00E+00
Series RC spring return - With PST	1	1,24E-09	1,25E-08	0,00E+00
Series RC88 spring return - No PST	1	2,34E-08	0,00E+00	0,00E+00
Series RC88 spring return - With PST	1	2,10E-09	2,13E-08	0,00E+00
Series RC double acting - No PST	1	1,40E-08	0,00E+00	0,00E+00
Series RC double acting - With PST	1	1,26E-09	1,27E-08	0,00E+00
Series RC88 double acting - No PST	1	2,36E-08	0,00E+00	0,00E+00
Series RC88 double acting - With PST	1	2,13E-09	2,15E-08	0,00E+00

Systematic capability	3 (Route 1 _s applied)			
Architectural constraints	Route 1_H:	Applied	Route 2_H:	Applied
	The product can be used in: <ul style="list-style-type: none"> • single channel configuration: <ul style="list-style-type: none"> ○ up to SIL 2 without external diagnostic tests ○ up to SIL 3 considering external diagnostic tests • double channel configuration: up to SIL 3 			

- Remarks:**
- For further details, including environmental conditions, limitations of use, lifetime, failure rates traceability, mean repair times, common cause factors and systematic capability constraints, make reference to Safety Manual DOK-000165

END OF CERTIFICATE

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