



Certificate no. TAI-FS-C-24-0059

WE HEREBY CERTIFY THAT

Product description PNEUMATIC COMPACT SCOTCH-YOKE SPRING RETURN
AND DOUBLE ACTING ACTUATOR

Models SERIES CP/S, CP/D

Manufacturer ROTORK CONTROLS, INC.
675 Mile Crossing Blvd.
Rochester, NY 14624
United States of America

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

IEC 61508 Parts 1–7:2010

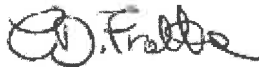
AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION
SET OUT IN THE ABOVE-MENTIONED STANDARDS

Summary Report no. TAI-FS-R-24-0117

Expiry date 13.06.2027

Issue date 10.07.2024

TUV AUSTRIA ITALIA
10.07.2024, 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-24-0059

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 CP/S - No PST	1	2,48E-08	0,00E+00	0,00E+00
Series CP/S - With PST	1	2,23E-09	2,25E-08	0,00E+00
Series CP/D - No PST	1	2,30E-08	0,00E+00	0,00E+00
Series CP/D - With PST	1	2,07E-09	2,10E-08	0,00E+00


Systematic capability	3 (Route 1s 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 SM-CP-A-02-E

END OF CERTIFICATE

TUV AUSTRIA ITALIA
10.07.2024, Monte Roberto (AN)


 Ing. Crescenzo Di Fratta

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