

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ ZERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ ■ شهادة ■ 證明 ■ 証明書 ■ 인증서



# C E R T I F I C A T E

**Certificate no.** 18-SIL-0010027-03-TIC

WE HEREBY CERTIFY THAT

**Product description** SOLD0™ BOLT MICRO SWITCH BOXES

**Series** BM, TB

**Manufacturer** Rotork Instruments Italy S.r.l.  
Viale Europa 17 – 20090 Cusago MI



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

**Report no.** RC-0220-SIL-TIC-PC-0010027-18-02

**Expiry date** 13.02.2023

**Note**

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.  
This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 14.02.2020

Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

CERTIFICATE ■ CERTIFICATO ■ ZERTIFIKAT ■ ZERTIFIKA ■ CERTIFICADO ■ گواهینامه ■ ΠΙΣΤΟΠΟΙΗΤΙΚΟ



# C E R T I F I C A T E

## ANNEX to Certificate no. 18-SIL-0010027-03-TIC

Type	A
HFT	0
Safety functions	1. Give an output signal to indicate that the actuator has moved from the "normal position" 2. Give an output signal to indicate that the actuator has reached the "safe position"
Mode of operation	Low Demand Mode

Random failure rates				
Configuration	Safety function	$\lambda_D$ [1/h]	$\lambda_S$ [1/h]	SFF [%]
Soldo™ Bolt micro switch boxes	1 / 2	4,8E-10	<1,0E-09	> 60% > 99% including PST

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

### 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 IOM00069\_04.

END OF CERTIFICATE

Reggio Emilia, 14.02.2020

  
Dipl. Ing. Feridoon Sergizzarea  
TÜV INTERCERT Certification Body

Page 2 of 2