

Certificate no.

17-SIL-0010009-10-TIC

WE HEREBY CERTIFY THAT

Product description

LIMIT SWITCH BOXES

Models

Series ASB

Series SDCU-20 with limit switches kit SDCU-20-LS

Manufacturer

DVG AUTOMATION S.p.A.

Via G. Rossetti 2 - 29016 Cortemaggiore PC

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. RC-0518-SIL-TIC-PC-0010009-17-12

Expiry date

17.05.2021

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.



Dipl. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Reggio Emilia, 18.05.2018



Туре	A
HFT	0
Safety functions	 De-energize-to-trip operation: when the actuator, on which the device is mounted, starts to drive the emergency valve to its safe position De-energize-to-trip operation: when the actuator, on which the device is mounted, reaches the "safe position"
Mode of operation	Low Demand Mode

C E I	R T	TUV NTER CER SAAR I F ate no. 17-S	I C	A 9-10-TIC	T E		
Туре	A						
HFT	0						
Safety functions Mode of operation	is mounted, 2. De-energize	is mounted, starts to drive the emergency valve to its safe position. De-energize-to-trip operation: when the actuator, on which the device is mounted, reaches the "safe position"					
Configuration		ndom failure rate Safety function	tes λ _{DU} [1/h]	λ _{DD} [1/h]	λ _s [1/h]		
ASB; SDCU-20 with SDCU-20-LS - No PST - Single switch		1/2	1,00E-08	0,00E+00	1,80E-08		
ASB; SDCU-20 with SDCU-20-LS - With PST - Single switch		1	1,00E-10	9,90E-09	1,80E-08		
ASB; SDCU-20 with SDCU-20-LS - No PST - Redundant switch		1/2	1,00E-09	0,00E+00	3,60E-08		
ASB; SDCU-20 with SDCU-20-LS - With PST - Redundant switch		1	1,00E-11	9,90E-10	3,60E-08		
Systematic capability	3 (Route 1 _s ap	pplied)					
	Route 1 _H :	Applied	Route 2	H: Applied			
Architectural constraints	• single swite • Series A • up t • Series S	The product can be used in: single switch configuration: Series ASB: up to SIL 2 without external diagnostic tests up to SIL 3 considering external diagnostic tests Series SDCU-20 with SDCU-20-LS: up to SIL 3 redundant switch configuration: up to SIL 3					
Remarks:	can be per • For further use, lifetim cause fac	series SDCU-20 formed by the elo details, including e, failure rates to ctors and syston o Safety Manual	ectronic board g environment traceability, me tematic capa	of the SDCU al conditions, ean repair tin bility constr	-20 itself. limitations ones, commo		
Reggio Emilia, 18.05.2018	ENL	O OF CERTIFICA		g. Feridoon Se	22 22 ergizzarea		

Architectural constraints	3 (Route 1 _S applied)					
	Route 1 _H :	Applied	Route 2 _H :	Applied		
	The product can be used in: • single switch configuration: • Series ASB: • up to SIL 2 without external diagnostic tests • up to SIL 3 considering external diagnostic tests • Series SDCU-20 with SDCU-20-LS: up to SIL 3 • redundant switch configuration: up to SIL 3					