

Certificate of Conformity No.: 28708003

Manufacturer: Soldo S.r.l.
Via Monte Baldo, 60
I-25015 Desenzano del Garda (BS)

Specifications: IEC 61508-1+7:2000

Date: 2008-01-31

Equipment: Rotary Switch Boxes

Type Series SS, SF, SB, SA, SC, SD, SG, SV, SZ, SJ, HW, HI, HN, SX, SW, SY, SH, SI, CS, CA, XA

RESULT:

As per the TÜV Rheinland Italia Report No. FS 28708003 Rev. 1.0 dated 2008-01-30, we declare that the product meets the below requirements:

IEC 61508: 2000, part 1 to 7

Functional Safety of electrical/electronic/programmable electronic safety related systems; Type A, Low Demand Mode, HFT=0

Soldo Rotary Switch Boxes Series SS, SF, SB, SA, SC, SD, SG, SV, SZ, SJ, HW, HI, HN, SX, SW, SY, SH, SI, CS, CA, XA	No Partial Stroke Test		With Partial Stroke Test	
	λ_d Value	SFF Value	λ_d Value	SFF Value
• With Pepperl+Fuchs NAMUR sensors, standard NAMUR amplifier	$9,6 \cdot 10^{-9}$	> 60%	$4,8 \cdot 10^{-10}$	> 90%
• With Pepperl+Fuchs NAMUR sensors, fail-safe interface	$7,0 \cdot 10^{-11}$	> 99%	$3,5 \cdot 10^{-12}$	> 99%
• With Soldo REED sensors	$9,6 \cdot 10^{-9}$	> 60%	$4,8 \cdot 10^{-10}$	> 90%

PDF_{AVG} values for different values of TI and TI_{PS}:

see TÜV Rheinland Italia Report No.: FS 28708003

As per these values, the aforementioned product can be used up to SIL 3 as a "single device".

Expiry date: 2011-01-31

Location: **Medolago**

Date: 2008-01-31

TÜV Rheinland Industrie Service GmbH
Am Grauen Stein
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Test Laboratory for Pressure
Equipment

