

FUNCTIONAL SAFETY CERTIFICATE
N° 23/005SIL_IND

FILE n° 23.23615

This is to certify that the

Limit switches
model
TOP

manufactured by

T.E.R. Tecno Elettrica Ravasi Srl
Via Privata Garibaldi 29/31
Calco (LC)
Italy

Has been assessed by SGS Italia spa and found to meet the requirements of

IEC 61508-2:2010, IEC 61508-4:2010
IEC 61508-6:2018, IEC 61508-7:2010

As being suitable for use in safety-related applications up to and including the following Safety Integrity Level:

SIL 1 for safety function "operation/control on demand TYPE A"

SGS Italia S.p.A.
On behalf of Business Manager
Rosalba Fanale



Issuance date: 24 July 2023
Expiry date: 24 July 2026
Total number of pages: 2

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SUMMARY TABLE

E/E/PE system	Limit switches mod. TOP
Function definition	Operation/control on demand
Max SIL	SIL1
SFF	60%
λ_{DU}	4000 FIT
DC	50%
PFDavg	1,75E-2
HFT	0
MTBF	57 years
MTTR	24 hours
Proof test interval	1 year
Mission Time	10 years

Technical report:

23.500.0743 dtd. 24/07/2023

20.500.0530 dtd. 24/07/2020

17.500.0115 dtd. 23/02/2017

14.500.0045 dtd. 31/01/2014

SGS Italia S.p.A.
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