



Annex I

No. 6G240315.ZOAUQ15

- The use of the product must obey the required rules to conservation of SIL 3 properties. These rules are recalled in the §6 of the Assessment Report reference: [SIL Capability assessment report].
- The product version of hardware components used for validation and type tests are the following:

Product:	Limit Switch
Model(s):	APL210N/APL310N/APL410N/APL510N, ITS100/ITS300, YT870, ALS500M

- Acceptable environmental constraints for the system are recalled in the safety Manual. These elements must be checked for each integration operation of the product.
- Hypothesis used for calculations are presented here under:
 - The mode of operation is Low demand, which means less than 1 trip demand each year;

Component architecture	SIL Capability	Demand frequency	PFD
1oo1 configuration	SIL2	Low	9.08E-04
1oo2 configuration	SIL3	Low	2.19E-05

- IEC 61508 Failure Rates in FIT*

Failure Category	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}	SFF
Average	20	58	356	37	92.14%
Tests intervals=12months, MTR=24h					

*FIT=1 failure/10⁹ hours

- The Safety Integrated Level of the safety function using the product shall be calculated taking into account the characteristics of the whole system.