

SIL Declaration of conformity

Functional safety according to IEC 61508 / IEC 61511 / NE130

Vibrating level switch

VEGASWING 61, 63

Contactless

Relay (DPDT)

Transistor (NPN/PNP)

VEGA Grieshaber KG hereby declares, in sole responsibility, that the instruments can be used for level detection of liquids in a safety-related system according to IEC 61508:

- Up to SIL2 / HFT=0 in a single-channel architecture
- Up to SIL3 / HFT=1 in a multiple-channel architecture

Level of Integrity to:

- Systematic Capability: SC3 (SIL3 capable)
- Random Capability: Type A Element

Safety-related characteristics ¹⁾

	λ_s	λ_{DD}	λ_{DU}	SFF	PFD _{AVG} ²⁾	PTC1	PTC2
Contactless	162 FIT	0 FIT	34 FIT	83%	$0,028 \times 10^{-2}$	44%	95%
Relay	166 FIT	0 FIT	32 FIT	84%	$0,027 \times 10^{-2}$	42%	94%
Transistor	160 FIT	0 FIT	30 FIT	84%	$0,025 \times 10^{-2}$	39%	94%

¹⁾ independently evaluated by exida as per IEC 61508-2:2010

²⁾ calculated with T1= 1 year and PTC=90%

This declaration of conformity applies only in connection with the valid operating and safety instructions manuals from VEGA.

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