

SIL Declaration of conformity

Functional safety according to IEC 61508 / IEC 61511 / NE130

Vibrating level switch

VEGASWING 61, 63

Two-wire

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} | λ_H | λ_L | SFF | PFD _{AVG} ²⁾ | PTC1 | PTC2 |
|-------------|----------------|----------------|-------------|-------------|-----|----------------------------------|------|------|
| 7 FIT | 0 FIT | 35 FIT | 35 FIT | 141 FIT | 84% | $0,030 \times 10^{-2}$ | 60% | 96% |

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.

VEGA Grieshaber KG
Am Hohenstein 113
77761 Schiltach
Germany

07.03.2016

i. V. Thomas Deck

i.V. Thomas Deck
Entwicklung / R&D