SOTEX

Vegaswing
low-water protection device

SOTEX optionally offers a Vegaswing 51 with every nitrogen expansion system. This provides an additional possibility to observe a low water level outside the PLC control of the nitrogen expansion system. The Vegaswing 51 is used as a universal level switch in the vertical heat storage tank. It reliably detects the filling level reached with millimetre accuracy.

- Accurate and reliable operation by product-independent switching point
- Low maintenance costs
- Minimal time and cost savings thanks to simple setup without medium

The Vegaswing 51 is to be connected in the SOTEX control cabinet. From there, one can use the signal via a potential-free contact, for example, to close a buffer return valve to a low water level.

Please note that the Vegaswing is optional. As standard, the SOTEX nitrogen expansion system is already equipped with a sensor that measures and displays the filling of the expansion chamber. This also provides an alarm regarding the level.

For more information, please contact the sales department.

Process temperature	-40 … 150 °C
Process pressure	-1 … 64 bar
Version	■ standaard
Materials, -wet parts	316L
Screw connection	≥ G½,
Sealing material	seal has no contact with the medium
Material-of-the-housing	■ plastic
	■ stainless steel
Protection class	IP 68 (0,2 bar)
Output	■ contactless switch
	■ transistor (NPN/PNP)
Ambient temperature	-40 … 70 °C

Measuring principle
The VEGASWING is a level sensor with vibration fork for level detection. The instrument has been developed for industrial applications in all areas of process technology and is preferably used in liquids. The vibrating element (vibrating rod or tuning fork) is piezoelectrically driven and vibrates at the mechanical resonance frequency of approx. 1,200 Hz. The piezo elements are mechanically fixed and therefore have no temperature shock limitations. When the vibration element is covered with product, the vibration frequency changes. This change is detected by the built-in electronics and converted into a switching command.