

VISY-Stick Sump

The Sensors for Monitoring Manhole and Dispenser Sumps

The VISY-Stick Sump sensors are used to monitor the manhole sump and the sump underneath the dispenser for fluids that could potentially accumulate there. They are capable of discriminating between water and fuel rapidly and accurately.



VISY-Stick Sump
(blue for manhole sump,
red for dispenser sump)
and the VISY-Stick Sump
installation kit

Function

The VISY-Stick sensor operates in accordance with the magnetostrictive measuring principle. The sensor tube contains a wire made of magnetostrictive material. Magnets integrated in the floats magnetise the wire at the float position. The sen-

sor electronics transmit current pulses through the wire, which generate a circular magnetic field. A torsional wave develops at the point where the two magnetic fields overlap and it propagates towards the sensor head. In the sensor head, the-

se waves are converted into an electrical signal. The float positions are calculated from the different propagation times, and the water level is reported and the fuel alarm or tamper alarm are issued as and when necessary.

Features of FAFNIR technology

- Continuous monitoring of the water level in the manhole and dispenser sump
- Alarm in the event of fuel or water being detected
- No additional cable required due to operation on VISY-Sensor bus parallel to VISY-Stick and VISY-Reed Sump
- Encapsulated design for protection against contamination
- Anti-Tamper device

Technical Data VISY-Stick Sump

Standard Version:

- » Product:
 - Accuracy: ± 1 mm;
 - Repeatability: ± 0.1 mm;
 - Resolution: only generating an alarm;
 - Response threshold: 35 mm over water*;
 - Floater: $\varnothing 54$ mm
- » Water:
 - Accuracy: ± 2 mm;
 - Repeatability: ± 0.5 mm

- » Resolution: 1 mm;
- » Response threshold: 66 mm*;
- » Floater: $\varnothing 54$ mm
- * Product density and the position of the other float may result in variations
- » Temperature:
 - Measuring range: -40 °C to $+85$ °C;
 - Accuracy: ± 1 °C;
 - Repeatability: ± 0.5 °C;
 - Resolution: 0.1 °C
- » Electrical connection: M12 Plug connector

- » Protection class: IP68
- » Sensor material:
 - Stainless steel 304 (Tube),
 - Alu (Head, Protection tube),
 - PA 6
- » Approvals:
 - ATEX, NEPSI, IECEx, UL-Brazil

VISY-Stick Sump

- Options:
- » Installation kit

