

# VISY-Stick Interstitial

The Leakage Sensor for Double-walled Tanks

The VISY-Stick Interstitial is a sensor for installation in the interstitial chamber and is designed to guarantee rapid leak detection. It is used in double-walled fuel tanks whose interstitial chambers are filled with a leak fluid (e.g. brine, glycol, etc.). An alarm is issued if the fluid level in the interstitial chamber leaves the specified range.



VISY-Stick Interstitial with screw-in unit (left) and for installation in the riser pipe (right)

## Function

The VISY-Stick sensor operates in accordance with the magnetostrictive measuring principle. The sensor tube contains a wire made of magnetostrictive material. A magnet integrated in the float magnetises the wire

at the float position. The sensor 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 pro-

pagates towards the sensor head. In the sensor head, these waves are converted into an electrical signal. The float position is calculated from the propagation time.

## Features of FAFNIR technology

- Continuous monitoring of fluid level and temperature
- Instant alarm in the event of a leak
- Easy and cost-effective to install and commission

### Technical Data

#### VISY-Stick Interstitial

**Product:**

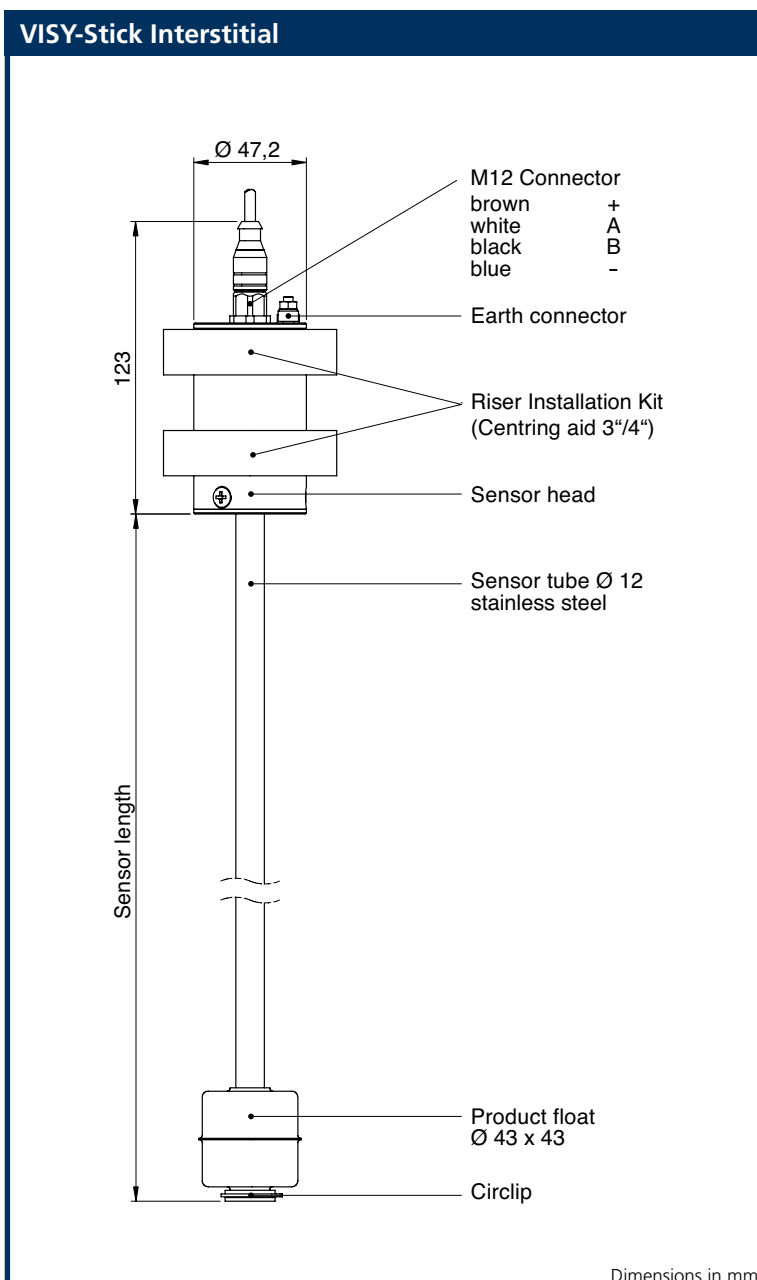
- » Accuracy:  $\pm 0.5$  mm;
- Repeatability:  $\pm 0.1$  mm;
- Resolution: 0.1 mm;
- Response threshold: 40 mm;
- Floater:  $\text{Ø } 43$  mm, 1½"
- » Temperature:
- Measuring range: - 40 °C to + 85 °C;
- Accuracy:  $\pm 1$  °C;
- Repeatability:  $\pm 0.5$  °C;
- Resolution: 0.1 °C

- » Process connection: R1½ screw-in unit continuously variable height adjustment
- » Electrical connection: M12 Plug connector
- » Protection class: IP68
- » Sensor material: Stainless steel 304 (Tube), Stainless steel 303 (Head)
- » Approvals: ATEX, NEPSI, IECEx, UL-Brazil

#### VISY-Stick Interstitial

**Options:**

- » Riser installation
- » 1" Installation kit
- » Screw-in unit made of stainless steel



date of issue 02.12 Subject to technical change