

SLUDGE DETECTION ALARM ANB22/14321

4978

1 Technical definition

- Maximum sludge level detection
- Built-in acoustic alarm device
- 1 changeover relay output
- Sensor fault detection with 5 m cable
- Snooze function and alarm memory
- Ex(ATEX) certified

2 Operation

Ultrasonic sensor consisting of transmitter and receiver. If the wave emitted by the transmitter is blocked by mud and does not reach the receiver, the relay activates the alarm.

The alarm relay has a built-in acoustic device.

A central alarm system, modem, flashing beacon or any external alarm device can be connected to the relay.

The sensor associated with the relay distinguishes between liquid and sludge, and liquid and air. It can thus detect a sludge level or a loss of level (leak). Installation and connections: consult us or an approved electrician.

To activate the installation, a green number on the front of the box is used to obtain the activation code.

4 Relay specifications

- Material: ABS
- Dimensions: 185mm x 185 mm-depth: 62 mm
- Supply voltage: 230 VAC+/- 10%.
- Frequency: 50-60 Hz
- Power consumption: 6VA/4.5 VA(max/nominal)
- Relay output 1: SPCO potential-free changeover contact (normally closed) 3 A,250 VAC/100VAC
- Breakdown current: F100 mA-250 V
- 3 sensor inputs: hydrocarbon sensor-high level sensor-sludge veil sensor
- Ambient temperature : -25° to +50°C
- Configuration: programming by activation code
- Enclosure protection: IP65 (against dust and water jets)
- Electrical protection: Class II Internal fuse protection: FS1 = 63mA, FS2 = 315mA, FS3= 50mA
- Buzzer sound level: >80dB(distance 0.1m)
- Audible frequency: 4kHz
- Pollution degree: 2
- Approval : Baseefa(England)
- ATEX certification: Baseefa08 ATEX 0110

3 Advice and standards

The sludge detection assembly can be coupled with the hydrocarbon layer detection probe (Ref. SNH/14200) and the high level detection probe (Ref. SNL/14210). Installation must not exceed 200 meters in Zone IIC configuration, regardless of the number of probes. Light beacon can be wired (Ref. GYRO/ANH).

5 Sensor specifications

- 5-meter cable
- Sensor can only be connected to internal power supply
- Supply voltage: 13 Vdc max
- Ambient temperature:-20°C/+50°C
- IP68 protection
- Approval: EXia IIC T3
- Inspection body: International Baseefa(England)
- ATEX certification: Baseefa08 ATEX 0110

6 Beware!

The box must be installed outside the ATEX zone. The control box must never be drilled to allow cables to pass through. This could compromise the certification and consequently the safety of the equipment.

A fail-safe junction box should be used whenever cable cross-sections need to be reduced for passage through the cable gland.

