

SEAL MONITOR

Multivoltage, Oil conductive monitor

- Measures oil conductivity in pumphousing
- Sensitive adjustment from 40Ω to 100kΩ
- LED indicates state of relay
- Multi voltage.
- Fast connection pluggable terminal blocks.



Operating

Seal monitor continually checks the electrical conductivity of the oil. As water enters, this changes by a large factor. Measurements and evaluations had shown that an oil-water mix resistance of 40 to 100KOhm represents a critical water quantity. In order to measure the oil's conductivity, two electrodes are necessary. One electrode is formed by the pumphousing itself, and the second consists of a high quality insulated metal probe, which projects into the oil from the motor area. It is designed in such a manner that effective conductivity for oil housing type is the same. The measuring current to the electrode is carried out via a separate lead. The return flow takes place via the earth. The relay energizes if the resistance goes below the set.

General specifications

- Power supply: multi voltage
- Supply tolerance: +10% / -15%
- Frequency: 50 / 60Hz
- Power consumption: 2.4 VA
- Duty cycle: 100%
- Sensitivity range 4.7kΩ to 100kΩ
- Display: LED red indicates relay energize.
- Probes: cable length max 100m
- Protection class open air: IP20
- Protection class enclosed: IP40
- Self-extinguishing plastic housing UL V0 acc IEC 529
- Mounting position: on DIN-rail TS 35 according to EN 50022
- Terminal : pluggable acc IEC 60947-7-1, IEC 60998-1
- Terminal Capacity: 1x4mm² without multicore cable end
1x0.5 to 2.5mm² with/without multicore cable end

Output circuit

- Relay: 1 C/O
- Rated voltage: 250 Vac
- Switching capacity ac: 1000 VA (8A / 250V) COS Φ = 1
- Switching capacity dc: 3 A 30 Vdc
- Max switching capacity ac: 10 A
- Mechanical life: 1 x 10⁶ operations
- Electrical life at 1000 VA COS Φ = 1: 200.000 operations

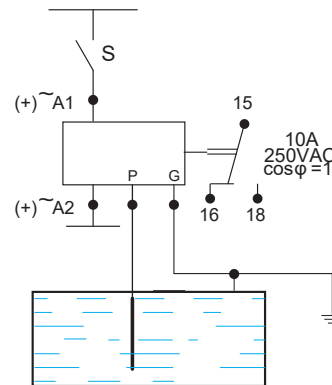
Environmental conditions

- Permissible ambient temperature: -20°C....+50°C
- Storage temperature: -25°C....+70°C
- Transport temperature: -25°C....+70°C
- Relative humidity (acc. IEC 721-3-3 CLASS 3K3): 15% to 85%
- Vibration resistance (acc. IEC 68-2-6): 10 TO 55 H

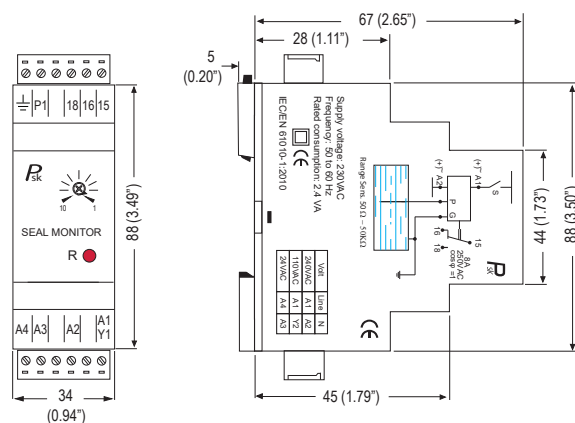
Dimensions & weight

- Width: 34 mm
- Height: 88 mm
- Depth (excl. DIN-profile): 67 mm
- Weight: 190 gram

Connections

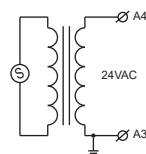


Dimensions



CAUTION!

24 VAC INPUT IS NOT ISOLATED. PLEASE BE SURE CONNECT A3 TO GROUND WHEN GROUNDED INPUT SUPPLY BEING USE.



Ordering information

SEAL MONITOR

Volt	Line~	N
240VAC	A1	A2
110VAC	Y1	Y2
24VAC	A4	A3