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# PUMP SEAL LEAK MONITOR RELAY / WATER LEAK DETECTION RELAY & THERMISTOR / KLIXON PRODUCT GROUP

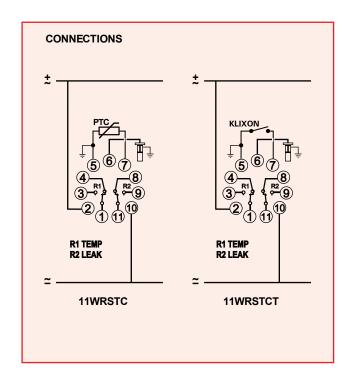
## TYPES: 11WRSTC (PTC, 2xSPCO), 11WRSTCT (KLIXON, 2xSPCO)

#### FEATURES

- 11 Pin plug in
- Thermistor & Klixon versions available
- Detection of water contamination of oil
- Detection of water leaks from pipes in buildings
- Isolated probe supply
- LED indication

#### DESCRIPTION & MODE OF OPERATION

11 pin plug relay for the monitoring and alarming in applications such as water contamination of the oil within submersible pumps. Working on the conductive probe principle. In a situation healthy condition the output relay is energised, when the presence of water is detected, i.e. in the case of a pump, the seal fails and the oil becomes contaminated the resistance drops. If the resistance falls below the set level output relay will de-energise and the red LED will extinguish. A green LED indicates the connection of the auxiliary supply. Such pumps often have embedded thermistors within the motor winding this relay will also monitor a series circuit of up to 6 thermistors having a total "healthy" resistance not exceeding 1500 Ohms, the output relay will be energised indicated also by a red LED. Should overheating occur the individual resistance of a thermistor will rapidly rise above 3.3 KOhms at which point the normally energised relay/s will de-energise, accompanied by the red LED extinguishing. The relay will re-energise when the circuit resistance drops below 1.8 KOhms. in the event of a short circuit or auxiliary supply loss the unit will de-energise.





### SPECIFICATIONS

#### Supply & Measuring

Nominal supply tolerance: Isolation: Via transformer Probe supply: 12VDC Max probe current: 2mA Power consumption: 3VA Sensitivity fixed: 4.7K0hms 100 mSec on make Response time:  $3.3 \, \text{KOhms} \pm 5\%$ Operating level:  $1.8 \text{ KOhms} \pm 10\%$ Reset level:

Max cold resistance of detection circuit: 1500 Ohms Max No. of PTC sensors: 6 2.5V DC max

 Relay output
 SPC0 10Amps/250V AC1

 DPC0 8Amps/250V AC1

Mechanical life: 30 Million ops
Electrical life: 200K ops at max rated load

<u>General</u>

Operating temperature: -20°C to +65°C
Storage temperature: -20°C to +65°C
Max cable size: 4mm
CE marked Yes

In accordance with: EN61000-6-1: 2007

EN61000-6-3: 2007 EN61010-1: 2002

Housing material Polycarbonate, Auto extinguishable

to UL 94 V-0

### ORDERING INFORMATION

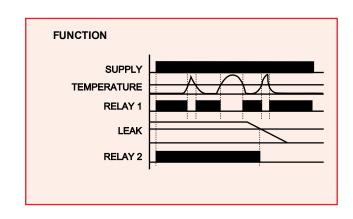
 TYPE
 NOMINAL VOLTAGE

 11WRSTC (PTC, 2x SPCO)
 440VAC
 230VAC

 11WRSTC T (KLIXON, 2x SPCO)
 415VAC
 110VAC

 400VAC
 48VAC

 380VAC
 24VAC



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