

PUMP SEAL LEAK MONITOR RELAY / WATER LEAK DETECTION RELAY & THERMISTOR / KLIXON MONITORING RELAY

PRODUCT
GROUP
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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:	± 15%
Isolation:	Via transformer
Probe supply:	12VDC
Max probe current:	2mA
Power consumption:	3VA
Sensitivity fixed:	4.7KOhms
Response time:	100 mSec on make
Operating level:	3.3 KOhms ± 5%
Reset level:	1.8 KOhms ± 10%
Max cold resistance of detection circuit:	1500 Ohms
Max No. of PTC sensors:	6
Sensor voltage:	2.5V DC max

Relay output

Output contacts:	SPCO 10Amps/250V AC1
	DPCO 8Amps/250V AC1

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

General

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
11WRSTCT (KLIXON, 2x SPCO)	415VAC	110VAC
	400VAC	48VAC
	380VAC	24VAC

