PRODUCT

GROUP

CONDUCTIVE PROBE LEVEL CONTROL RELAYS

TYPES: YWRW, 11WRW, 8WRW, 8WRWO (spco)

YWR2W, 11WR2W (dpco)



- Din rail or plug in
- Available SPCO or DPCO output
- Control & automatic regulation of liquid levels
- Selectable "pump up" or "pump down"
- Adjustable sensitivity
- Isolated AC probe supply
- LED indication
- Special Japanese standard pin out version

DESCRIPTION & MODE OF OPERATION

Din rail mounted or 8/11 pin plug in conductive probe level control relays for the control of maximum and/or minimum levels of conductive liquids.

Regulation of two levels "pump down" mode -The relay is energised when the high level probe is reached and deenergises when the level falls below the low level probe.

Regulation of two levels "pump up" mode -The relay is de-energised when the high level probe is reached and energises when the level falls below the low level probe.

Regulation of one level "pump down" mode selected - Connect the maximum and common terminals together. In this case a single probe only is used and the relay energises when the probe is immersed. Or in "pump up" mode the relay operation is reversed.

Prove relay test feature/override (Din rail versions only)-With probes connected the front selector switches can be used to control the relay providing a permanent "ON" or permanent "OFF".

OTHER APPLICATION NOTES

- On conductive vessels and tanks the chassis can be used as the "Common" electrode. If the vessel is non conductive a third probe is required as the "Common".
- Probe cables up to a maximum of 100m need not be screened, above 100m screened cable is recommended. However, in any event it is not advisable to run the probe cables with power cables. When screened cable is used, the screen and the common should be connected together.
- 3. DC auxiliary supply units are available but not recommended as the probe supply is DC non isolated. DC on the probes runs a consequential risk of a possible electrolysis reaction, especially in solutions with a high mineral or contaminant contact. Whilst AC probes have a self cleaning effect.

SPECIFICATIONS

Supply & Measuring

Nominal supply tolerance: $\pm 15\%$ Isolation AC versions: Via transformer

Isolation level: 2KV AC between contacts, probes & supply

Isolation DC versions: No

Probe supply: 20V AC (AC supply versions) 12VDC (DC supply versions)

Max probe current: 2mA Power consumption: 3VA

Sensitivity range: Adjustable 4.7 to 100 KOhms
Response time: 100 mSec on make

FOUNDAMENT OF THE PROPERTY OF

Relay output

Output contacts: Mechanical life:

SPC0 10Amps/250V AC1

30 Million ops

Electrical life: 200K ops at max rated load

<u>General</u>

Operating temperature: $-20^{\circ}\text{C to } +65^{\circ}\text{C}$ Storage temperature: $-20^{\circ}\text{C to } +65^{\circ}\text{C}$ 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

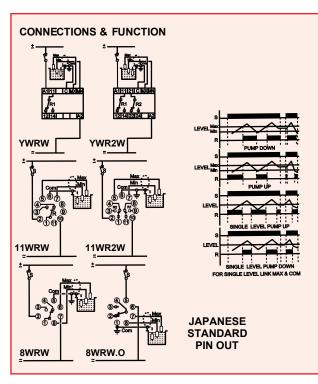
<u>TYPE</u>	<u>COIL VOLTAGE</u>		
YWRW (Din rail SPCO)	440VAC	230VAC	*12VDC
11WRW (11 pin SPCO)	415VAC	110VAC	*24VDC
8WRW (8 pin SPCO)	400VAC	48VAC	*48VDC
8WRW0 (8 pin SPCO)	380VAC	24VAC	
MAIDON (D. TDDOO)			

YWR2W (Din rail DPCO) 11WR2W (11 pin DPCO)

8WRWO has the Japanese standard pin out arrangement.

On request factory set sensitivity and mode of operation can be manufactured. Enter "F" after part number and specify exact requirements.

* DC auxiliary supply units are possible but the probe supply is an unisolated 12VDC with a consequential risk of a possible electrolysis reaction, especially in solutions with a high mineral or contaminant content.



Tel: 0161 626 5316 / 01276 25858