

SELF POWERED AC VOLTAGE OVER & UNDER CONTROL RELAYS

PRODUCT
GROUP
D

**TYPES: YWROUV (spco), YWR2OUV (dpcO)
YWROUV2 (1 x spco over & 1 x spco under)**

FEATURES

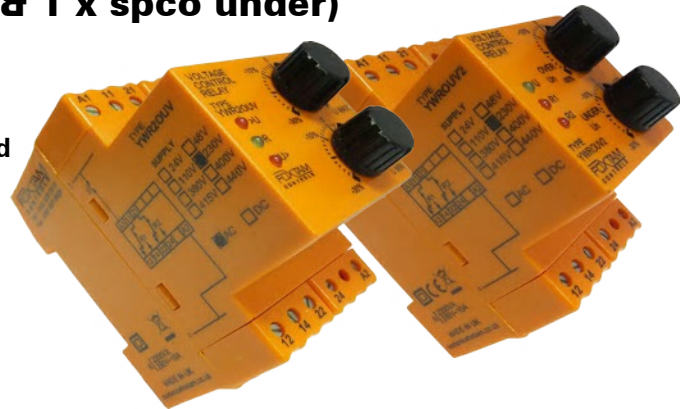
- Din rail mounted
- Self powered no separate auxiliary supply required
- AC over & under voltage control
- Optional adjustable time delay
- Nominal voltages 24VAC to 440VAC
- Multi LED indication

DESCRIPTION & MODE OF OPERATION

Din rail mounted AC self powered voltage control relays (no separate auxiliary supply required) for the combined monitoring of both over and under voltage levels. Available only in a din rail package with nominal voltages from 24VAC to 440VAC, an option adjustable time delay 0.1 to 10 secs "T" can be specified as a delay on tripping timer, (not possible on the YWROUV2).

YWROUV & YWR2OUV - SPCO and DPCO output devices respectively, with separate over and under voltage control levels set via potentiometers +20% and -30% against the nominal voltage. The output relay will be energised when the voltage is within the set points. Deviation above or below the setpoints will cause the output relay to de-energise, plus any optional time delay set. Total loss of supply will cause an immediate de-energisation. On the voltage returning to with the set levels +2% fixed hysteresis the output relay will re-energise. A green LED illuminated indicates a supply is present and a red LED illuminated indicates the output relay is in an energised state.

YWROUV2 - As above but with a separate relay output for over voltage and a separate relay output for under voltage, in a healthy state both relays are energised. R1 is designated as the over voltage relay and will de-energise if an over voltage level is reached. R2 is designated as the under voltage relay and will de-energise if an under voltage level is reached. The unit featured three LED indicators, green for a supply voltage present and individual red LED's for R1 and R2, a de-energisation will cause the respective LED to extinguish.



SPECIFICATIONS

Supply & Measuring

Nominal supply tolerance:	-35% & +25% (for 1 hour max)
Independent adjustable set levels:	-30% & +20%
Isolation:	Via transformer
Power consumption:	3VA max
Hysteresis:	Fixed 2%
Repeat accuracy:	± 2% at constant ambient ± 5% across temperature range
Delay on tripping:	100 mSec on make 0.1-10sec adjustable optional (not YWROUV2)

Relay output

Output contacts:	SPCO & 2 x SPCO 10Amps/250V AC1 DPCO 8Amps/250V AC1
Mechanical life:	30 Million ops
Electrical life:	200K ops at max rated load

General

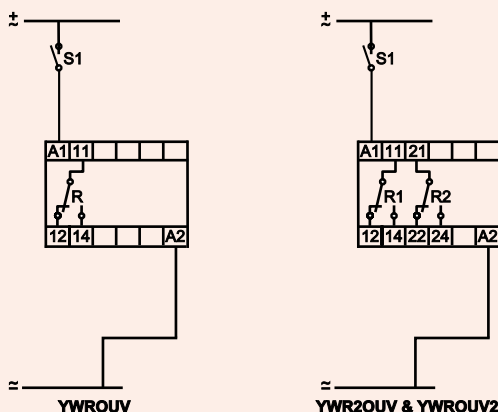
Operating temperature:	-20°C to +65°C
Storage temperature:	-20°C to +65°C
Max cable size:	4mm
CE marked	Yes
In accordance with:	EN61000-6-1: 2007, EN61000-6-3: 2007 EN61010-1: 2002
Housing material	Polycarbonate, Auto extinguishable to UL 94 V-0

ORDERING INFORMATION

TYPE	TIME DELAY	NOMINAL VOLTAGE
YWROUV (Din rail SPCO)	T*	440VAC 110VAC
YWR2OUV (Din rail DPCO)		415VAC 48VAC
YWROUV2 (Din rail 2 x SPCO)		400VAC 24VAC 230VAC

* Insert T if an adjustable 0.1-10sec time delay is required (not available on type YWROUV2).

CONNECTIONS



FUNCTION

