

# DIN RAIL 8 & 11 PIN PLUG IN DEDICATED VOLTAGE, MAINS RESTORATION "BROWN OUT" RELAYS



**TYPES: LYRAPTU, L8RAPTU, L11RAPTU (spco) & L8R2APTU, L11R2APTU (dpcO)**

## FEATURES

- Din rail & plug in versions
- SPCO & DPCO versions
- Relay resets when voltage dips below 80% of Un
- Fast response 20mSec detects 1 cycle loss of supply
- Super fast response version 1mSec also available
- Monitors its own supply
- Bi-colour LED indication
- Ideal for water authority applications
- CE marked



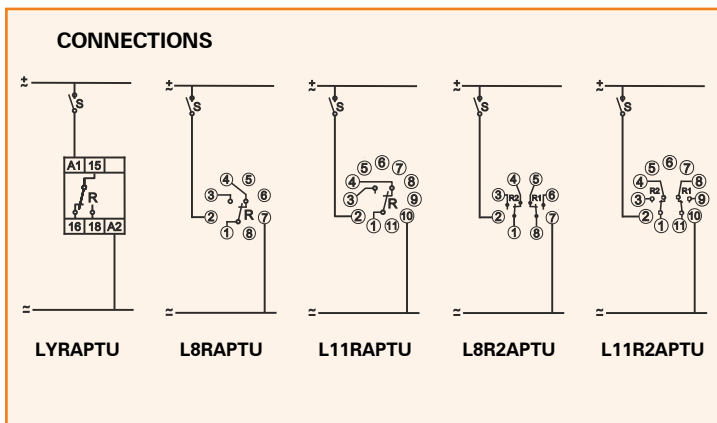
## DESCRIPTION & MODE OF OPERATION

Din rail mounted or 8 & 11 pin plug in SPCO and DPCO "mains restoration auto restart relays". The voltage and supply sensing built into these units are designed to sense voltage dips and momentary loss of supply referred to as "Brown Outs". This phenomena is a particular threat in the water industry and regularly occurs at remote pumping locations, especially during electrical storms. Left unchecked, a supply dip can "lock out" all or part of a control system, causing system malfunctions over a wide area necessitating engineers' site visits, just to reset and restart a control system. By monitoring the supply these tried and proven Foxtam units will provide the "auto restart" signal to reset and restart the control system without the need for a site visit. For added convenience DPCO units are also available with the extra contact used as say a telemetry output to notify an operations centre that an incident has occurred.

These relays are designed to operate in such a way that they reset as quick, if not quicker, than standard contactor and relay coils.

On the application of the supply voltage the relay will energise after a fixed delay of 100mSec. Should the supply then be lost for 1 cycle (20mSec)\* and/or dip below 80% of the nominal supply voltage, the relay will de-energise and will energise again after 100mSec when the supply voltage is restored.

\*1mSec version also available on request.



## SPECIFICATIONS

### Timing:

Repeat accuracy:	
constant ambient:	±0.5%
across temp range:	±3%
Response time:	Better than 20mSec
	Better than 1mSec option on request

### Supply voltage:

Supply voltage tolerance:	-20% to +15%
Frequency:	50/60Hz or DC
Max power consumption:	10VA

### Relay outputs:

Output contacts:	5Amps/250V AC1
Max switching voltage:	250VAC, 250VDC
Mechanical life:	20 Million ops
Electrical life:	50K ops at max rated load

### General:

Operating temperature:	-20°C to +65°C
Storage temperature:	-20°C to +65°C
CE marked:	Yes
In accordance with:	EN61000-6-1: 2007 EN61000-6-3: 2007 EN61010-1: 2002
RoHS compliant:	Yes
Housing material:	Polycarbonate, auto extinguishable according to UL94VO

## ORDERING INFORMATION

TYPE	COIL VOLTAGE
LYRAPTU (Din rail SPCO)	12VDC
L8RAPTU (8 pin plug in SPCO)	24V DC
L11RAPTU (11 pin plug in SPCO)	48V DC
L8R2APTU (8 pin plug in DPCO)	24V AC
L11R2APTU (11 pin plug in DPCO)	48V AC
	110V AC
	230V AC

### OPTION

1mSec (Request if required super fast reset)