

DIN RAIL 8 & 11 PIN PLUG IN DEDICATED VOLTAGE, SINGLE TIME RANGE, MAINS RESTORATION “BROWN OUT” TIMERS

PRODUCT
GROUP
A

TYPES:

LYRAFTU, L8RAFTU, L11RAFTU (spco)

L8R2AFTU, L11R2AFTU (dpcO)

LYRHFTU, L8RHFTU, L11RHFTU (spco)

L8R2HFTU, L11R2HFTU (dpcO)

LYRQFTU, L8RQFTU, L11RQFTU (spco)

L8R2QFTU, L11R2QFTU (dpcO)

FEATURES

- Din rail & plug in versions
- SPCO & DPCO versions
- Timer 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 the supply which is its own supply
- Three function options: delay on, pulse, delayed pulse
- 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 timers”. 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 timers are designed and operate in such a way that they reset as quick, if not quicker, than standard contactor and relay coils. They are offered in a choice of three functions:

Delay On “A” function - on the application of the supply voltage the relay will energise after the set time delay. 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 commence timing again when the supply voltage is restored.

Pulse “H” function - on the application of the supply voltage the relay will energise for the set delay time and then de-energise. The timer will then remain de-energised until reset by switching off normally, or by the loss of the supply for 1 cycle (20mSec)* and/or dip below 80% of the nominal supply voltage. The relay will again energise for the set delay time on restoration of a healthy supply voltage.

Delayed Pulse “Q” function - on the application of the supply voltage the relay will after the set delay time pulse on for a fixed time of 300mSec. Should the supply be lost for 1 cycle (20mSec)* and/or dip below 80% of the nominal supply voltage the timer will be reset and after restoration of the supply the timer will commence another set delay time after which the relay will energise for 300mSec.

*1mSec version also available on request.



SPECIFICATIONS

Timing:

Repeat accuracy:
 constant ambient: $\pm 0.5\%$ of set value
 across temp range: $\pm 3\%$
 Setting accuracy: 0 to +30%
 Response time: Better than 20mSec
 Better than 1mSec option on request

Supply voltage:

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

Relay outputs:

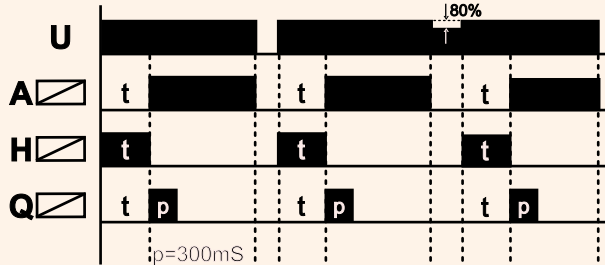
Output contacts: "Q & A" SPCO units 5Amps/250V AC1
 "H" SPCO units 10Amps/250V AC1
 All DPCO units 8Amps/250V AC1
 Max switching voltage: 250VAC, 250VDC
 Mechanical life: 20 Million ops
 Electrical life: 50K ops at max rated load

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
 Housing material: Polycarbonate, Auto extinguishable
 to UL 94 V-0



FUNCTION



ORDERING INFORMATION

DELAY ON

TYPE	TIME RANGE (specify)		COIL VOLTAGE	OPTION
LYRAFTU (Din rail SPCO)	0.1 to 1 sec	3 to 300 sec	12VDC	1mSec
L8RAFTU (8 pin plug in SPCO)	0.1 to 3 sec	0.1 to 10 mins	24VDC	(Request if required super fast reset)
L11RAFTU (11 pin plug in SPCO)	0.1 to 10 sec	0.2 to 20 mins	48VDC	
L8R2AFTU (8 pin plug in DPCO)	0.3 to 30 sec	0.3 to 30 mins	24V AC	
L11R2AFTU (11 pin plug in DPCO)	0.6 to 60 sec	0.6 to 60 mins	48V AC	
	1 to 100 sec	1 to 100 mins	110V AC	
			230V AC	

INTERVAL

- LYRHFTU (Din rail SPCO)
 L8RHFTU (8 pin plug in SPCO)
 L11RHFTU (11 pin plug in SPCO)
 L8R2HFTU (8 pin plug in DPCO)
 L11R2HFTU (11 pin plug in DPCO)

DELAYED PULSE

- LYRQFTU (Din rail SPCO)
 L8RQFTU (8 pin plug in SPCO)
 L11RQFTU (11 pin plug in SPCO)
 L8R2QFTU (8 pin plug in DPCO)
 L11R2QFTU (11 pin plug in DPCO)

CONNECTIONS

