

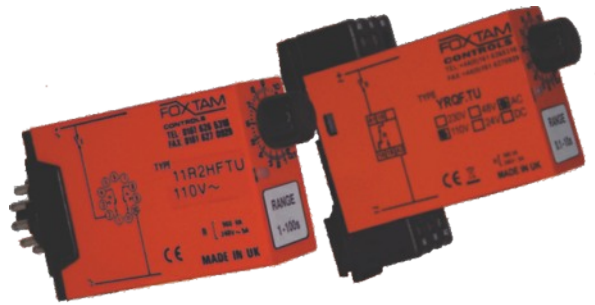
DIN RAIL 8 & 11 PIN PLUG IN DEDICATED VOLTAGE, SINGLE TIME RANGE, VOLTAGE DIP SENSITIVE MAINS RESTORATION TIMERS

TYPES:

**YRAFTU, 8RAFTU, 11RAFTU (spco)
& 8R2AFTU, 11R2AFTU (dpco)**

**YRHFTU, 8RHFTU, 11RHFTU (spco)
& 8R2HFTU, 11R2HFTU (dpco)**

**YRQFTU, 8RQFTU, 11RQFTU (spco)
& 8R2QFTU, 11R2QFTU (dpco)**



■ FEATURES

- Din rail & plug in versions
- SPCO & DPCO versions
- Timer resets when voltage dips below 80% of U_n
- Reset time 100mSec
- 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. 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 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 supply dipping below 80% of the nominal supply voltage. The relay will again energise for the set delay time on restoration of the supply voltage, after fault or normally.

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 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.

SPECIFICATIONS

Timing:

Repeat accuracy:
 constant ambient: ±0.5% of set value
 across temp range: ±3%
 Setting accuracy: 0 to +30%
 Response time: Better than 100mSec

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

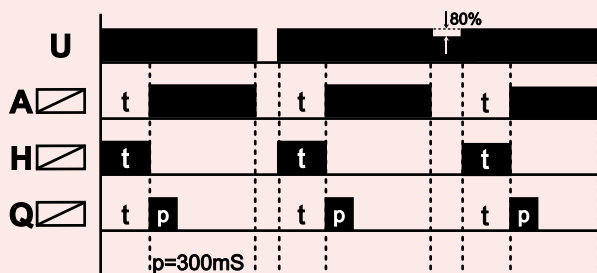
Max switching voltage: 250VAC, 250VDC
 Mechanical life: 20 Million ops
 Electrical life: 50K ops at max rated load

General:

Operating temperature: -20°C to +40°C
 Storage temperature: -20°C to +60°C
 CE marked: Yes
 In accordance with: EN61000-6-1: 2007
 EN61000-6-3: 2007
 EN61010-1: 2002

Housing material: Thermo plastic ABS (DIN7728), auto extinguishable according to UL94V0

FUNCTION



ORDERING INFORMATION

DELAY ON

TYPE	TIME RANGE (specify)		COIL VOLTAGE
YRAFTU (Din rail SPCO)	0.1 to 1 sec	3 to 300 sec	12VDC
8RAFTU (8 pin plug in SPCO)	0.1 to 3 sec	0.1 to 10 mins	24VDC
11RAFTU (11 pin plug in SPCO)	0.1 to 10 sec	0.2 to 20 mins	48VDC
8R2AFTU (8 pin plug in DPCO)	0.3 to 30 sec	0.3 to 30 mins	24V AC
11R2AFTU (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

TYPE
YRHFTU (Din rail SPCO)
8RHFTU (8 pin plug in SPCO)
11RHFTU (11 pin plug in SPCO)
8R2HFTU (8 pin plug in DPCO)
11R2HFTU (11 pin plug in DPCO)

DELAYED PULSE

TYPE
YRQFTU (Din rail SPCO)
8RQFTU (8 pin plug in SPCO)
11RQFTU (11 pin plug in SPCO)
8R2QFTU (8 pin plug in DPCO)
11R2QFTU (11 pin plug in DPCO)

CONNECTIONS

