

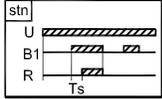
MULTI-FUNCTION TIME RELAY 12-240VAC/DC

Series 175 1M MULTI FUNCTION Timer is manufactured to a high degree of precision & accuracy. The time settings are step-less and can be set with the knob.

FUNCTION DIAGRAM :

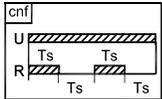
stn) Signal On Delay:

Timing starts when Switch (S) is closed. R energizes at end of period T_s and de-energizes when Switch (S) is opened.



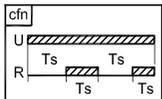
cnf) Cyclic On/Off: On start

Initially the relay (R) is On for period T_s after the power is applied. The relay (R) keeps on changing its status till power is removed with On and period = T_s .



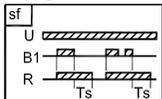
cnf) Cyclic Off/ On : Off start

Initially the relay (R) is Off for period T_s after the power is applied. The relay (R) keeps on changing its status till power is removed with On and Off period = T_s .



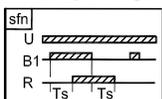
sf) OFF Delay, Constant Supply (Signal Off Delay)

R energizes when Switch (S) is closed. Timing commences after Switch (S) is opened and then the relay de-energizes.



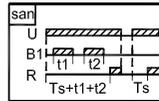
sfn) Signal Off/On

When Switch (S) is closed or opened for preset time T_s , the relay changes its state after time duration T_s .



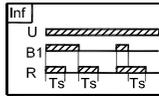
san) Accumulative Delay On Signal

Time commences as supply is present and Switch (S) is open. Closing Switch (S) pauses timing. Timing resumes when Switch (S) is opened again R energizes at the end of timing.



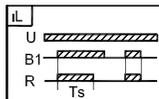
inf) Impulse On/Off

R energizes for the period T_s when Switch (S) is opened or closed. When timing commences, changing state of Switch (S) does not affect R but resets timer.



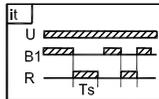
iL) ON Impulse, Constant Supply

When switch (S) is closed and remains closed output relay energizes until timing is over. If Switch (S) is Opened during period T_s , R resets.



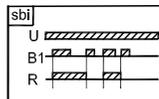
it) OFF Impulse, Constant Supply

When Switch (S) is opened, R energizes and de-energizes when timing is over. If Switch (S) is closed during period T_s R resets.



sbi) Leading Edge Bi-stable or Step relay

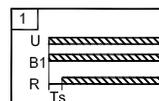
After every Signal, the output contact changes state, alternately switching from open to closed & vice versa.



Derived Modes :

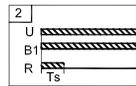
1) ON Delay

- Select mode signal On Delay (stn) and close Switch (S) or short A1-B1 before power ON, it will work as ON Delay.
- Select mode Accumulative On Delay (san) keeping signal open before power ON and during execution of time as well, it will work as ON Delay.

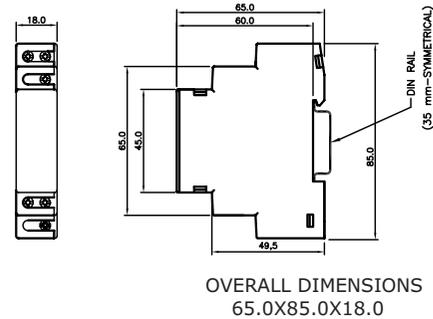


2) INTERVAL

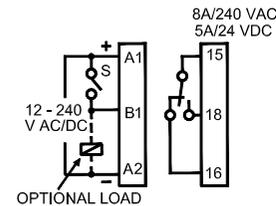
Select mode (iL) ON Impulse. If Switch (S) is closed between A1-B1 before making power supply ON and during execution of timing, it will work as Interval.



Overall product dimensions and mounting details :



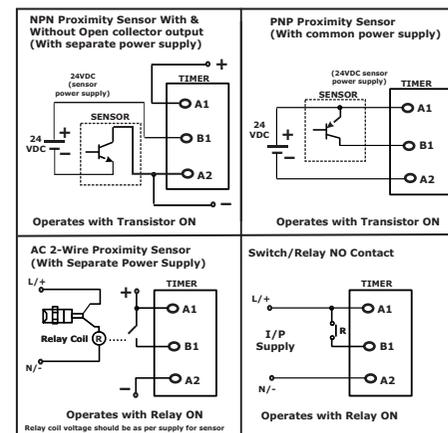
WIRING DIAGRAM:



INSTALLATION:

- DIN-Rail Mounting:
The Timer should be mounted on 35 mm symmetrical DIN Rail.

SENSOR CONNECTION DIAGRAM:



MULTI-FUNCTION TIME RELAY

12-240VAC/DC

RS Stock No: 896-6813



CAUTION:

- Always follow instructions stated in this product leaflet.
- Before installation, check to ensure that the specifications agree with the intended application.
- Installation to be done by skilled electrician.
- Automation & Control devices must be properly installed so that they are protected against any risk of involuntary actuations.
- Suitable dampers should be provided in case of excessive vibrations.
- Use of 250 mA fuse in series with product supply is recommended.
- The timers shall be placed in an enclosure that is minimum 200% of the size of the timer in the end use application.
- Setting of all potentiometers must be in clockwise direction only.

TERMINAL DETAILS:

	0.6 N.m (6 Lb.in) Terminal screw - M3
	1 x 0.8..4 mm ² Solid / Stranded Wire
AWG	1 x 18 to 10

Use Cu wire of 75°C only.

AWG	CURRENT (A)
12	5.00
14	3.33
16	1.67