Technical Data

Timer Input voltage range	24v – 230v AC/DC , 1A
Timer functions	Delay-on release
LED Indications	Relay status, Countdown, Error
Relay type	Elec-Mech, SPST, 10A@230vAC/24vdc
Relay life	100k Operations, Silver alloy contact
External reset input volt range	12v – 230v AC/DC
Reset input ON pulse width min	100ms
Time setting range	1 Sec to 10Hrs 30Min
Terminals	4mm Sq solid
Safety features	Internal Temperature Shutdown
Installation type	Din Rail mountable
Enclosure protection	IP40 / DIN EN60529, InflamableUL94V0
Range of use	Indoor environments
Product Safety test Certification	Not tested
Size	22x75x105mm
Working temperature	0-55 degCen(Not tested by LAB)
Colour	Light Gray
Weight	Approx 120gm

Please read the following instruction carefully before using the cable continuity tester

Warning: The Timer must be installed by a qualified person. This Timer is recommended for indoor electrical environments only. be sure that the Timer is securely mounted. Circuit breaker 2-pole must be installed between the power source and controller. An external contactor is recommended if the load exceeds the timer relay contact current rating.

Introduction

The OFF Delay Timer(Delay-on release) offers 24 different timing intervals in one unit. The timing interval can be adjusted with DIP switches on the front panel. The timer can operate on either AC or DC 24 v to 230 volt use the terminal N/P.

Power supply

Input voltage range: 24v - 230V AC/DC
Frequency range: 50 / 60Hz

Equipment Safety & Protection

AC mains input with Resettable fuse & Transients voltage protection. The safety circuit monitors the enclosure's internal temperature and switches off the relay output if the temperature above the safety value.

Application:

Manual ON & auto OFF relay timer switch.

Used to control the lighting in a room, garden, campus, etc. where you want to switch ON manually and switch OFF automatically after some time interval.

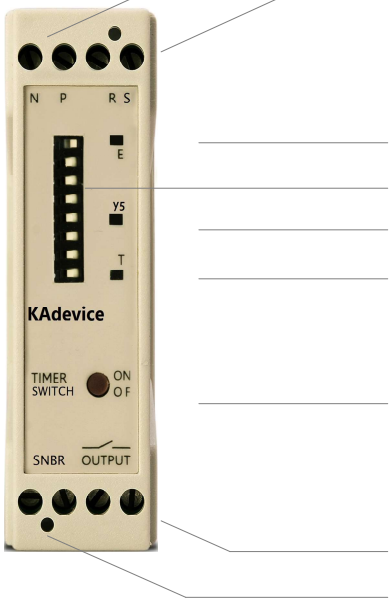
Can be used as a safety switch for the geyser ON/OFF control, Water pump ON/OFF control, etc. Timer saves electrical energy and over run.

Can be used as a safety switch for the lab workstation area. In general, the work area input power source switches ON and OFF manually. if the lab is not switched off by human error could damage the lab equipment etc. This off-timer can overcome this issue and switch off the mains input safely and this saves the equipment overrun and electrical energy.

Operating Instruction

Check that AC power input supply matches the data on the input rating, Keep the operating instructions in place for reference.

Device Setup



N-P Power supply input

R-S Reset signal input

LED-E Relay status

DIP switch for time delay setting

LED -Y5 Not in use

LED-T Delay time indication

Timer ON/OFF Switch

Relay **Output** Terminal

Snubber Terminal

N-P Power supply Input: Input supply voltage ranges from 24v to 230v AC or DC. Recommended to use a circuit breaker 2-pole between the input power source and controller for safety. LED T flicker every 5sec once indicating timer power ON.

R-S Reset signal input: Timer delay time reset only if the relay output is in ON condition. AC or DC input voltage to the R-S terminal reset the timer delay time. Input accepted voltage ranges from 12v to 230v (Safe recommended voltage between 12 to 48v AC / DC). An input voltage minimum of 100ms is required to reset the timer. The continuous supply voltage to the R-S terminal holds the delay time in a reset condition and the relay output remains the same, Timer delay time re-starts only after the release of the supply voltage from the R-S terminal. LED T ON and OFF every 500ms indicate reset input voltage is present.

Relay Output Terminal: The SPST relay output pole is normally open(OFF) condition. Relay close (switch to ON) only the timer starts the timer delay time. LED E switch to ON indicates the relay is in ON condition. Relay can drive a maximum of 10 Amps current at 230vAC/24vDC. Recommended to use an external conductor for high voltage high current load.

Snubber Terminal: Snubber connection is used to limit voltage transients in electrical load switching. Specially snubber is recommended for inductive load switching. The user can disconnect if not required. Use short-length sleeve wire to activate the snubber as shown in the figure.

Snubber connected

Indication & Switch Functions

LED-T Delay time indication:

Led-T flickers every 5 seconds once indicating Power ON.

Led-T flickers every 5 seconds twice indicating the timer started and completed the delay time successfully but the power is interrupted in the middle. To clear the power fail indication press and release the Timer on/off switch.

Led-T ON and OFF every 0.5s indicating the reset signal voltage is present in the R-S terminal.

Led-T stay ON indicates the timer running and the balance time delay to switch OFF the relay is more than 1 hour.

Led-T stays ON but flickers every 5 seconds once indicating the timer running and the balance time delay to switch OFF the relay is less than 60 minutes.

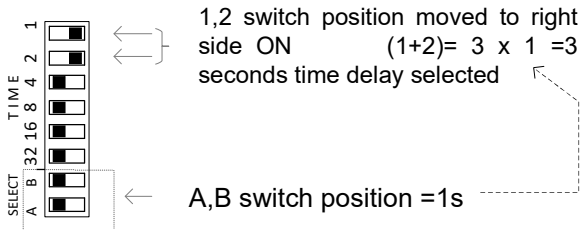
Led-T stays ON but flickers every 5 seconds twice indicating the timer running and the balance time delay to switch OFF the relay is less than 60 seconds.

LED-E Relay status: Led-E ON indicates the Relay output is ON(closed) and Led-E OFF indicates the Relay output is OFF (open). Led-E flickers every 5 seconds once indicating the timer running but the input power is interrupted in the middle.

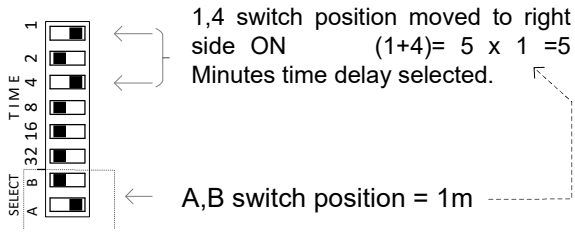
Error Indication: Led-T & E blinking together indicates the timer functional error.

DIP Switch Settings: Time delay setting range from 1 second to 10 hours 30 minutes. The switch position left side is OFF condition and the right side is ON condition. Dip switch all in the OFF position disables the time delay function.

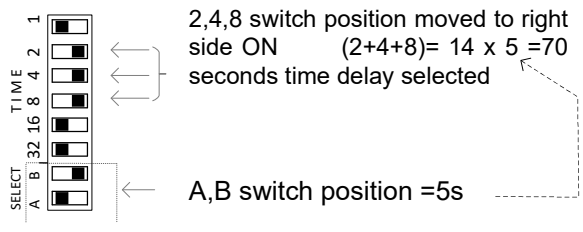
Example to set 3 Seconds time delay



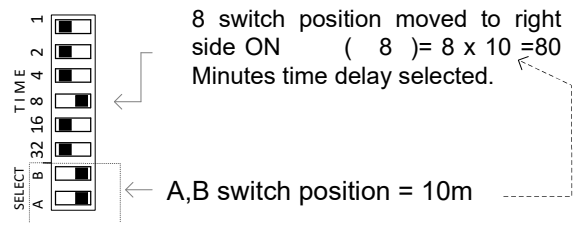
Example to Set 5 Minutes time delay



Example to set 70 Seconds time delay



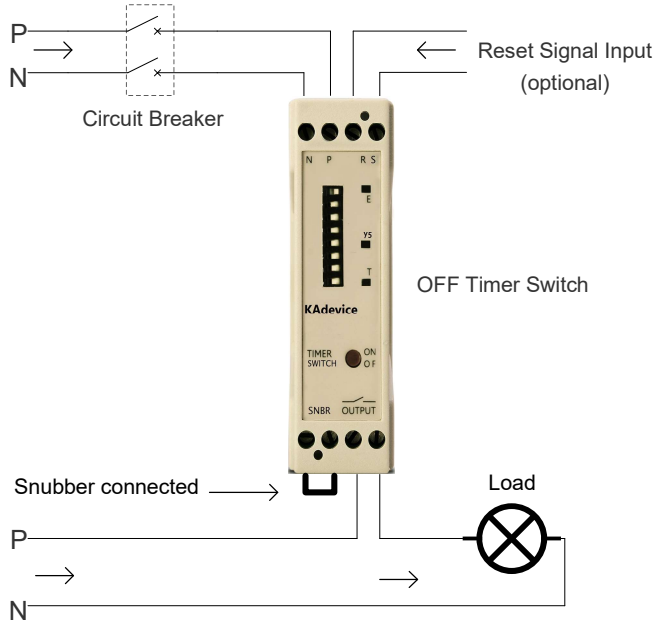
Example to Set 80 Minutes(1h 20m) time delay



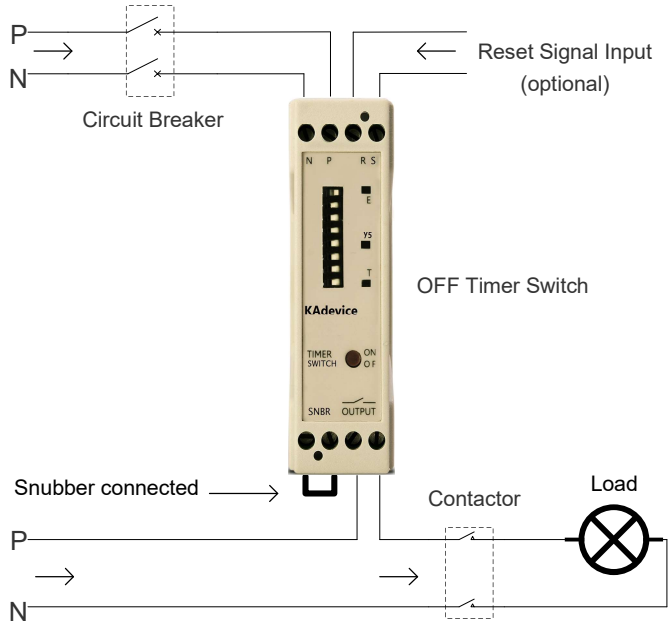
Timer ON/OFF Switch: To start the timer press and hold the control switch for 2 seconds. To stop the timer press and release the control switch.

Function: Press the timer on/off switch to switch ON(contact closed) the timer output relay. The relay output switch OFF(contact open) automatically after an adjustable time delay. whenever a power failure occurs during its working period, the relay switch to the OFF position. Power return connects the relay back to the ON position and resumes the time delay from where it had stopped. External reset option available to reset the time delay to its original state using the reset input signal.

Less than 5 amps load wiring diagram



More than 5 amps load wiring diagram



Note: This product is not certified by any safety test. So the company (or) product designer (or) supplier is not responsible for any injury, death, illness, loss, or damages.