YOSHINE
Wenzhou Derrek Elec.Co.,Ltd

CB CE

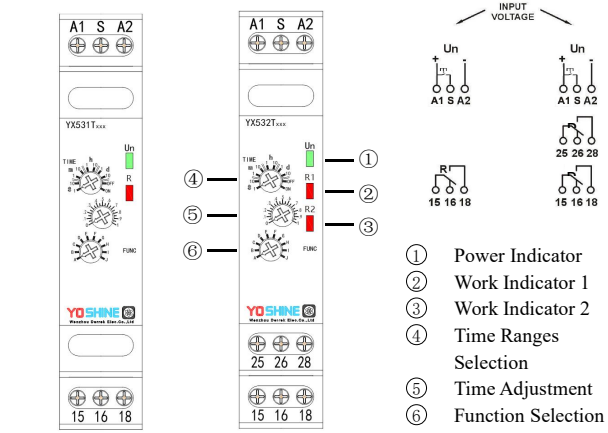
Multifunctional Time Relay

A multifunctional time relay is an electrical control device that integrates multiple timing functions and is used to implement time control functions in automation systems. Compared with traditional time relays, it has more setting options and functions and can be flexibly configured according to different needs. This type of relay usually includes multiple working modes such as delayed switching, delayed disconnection, and timed cycles, and can complete multiple tasks in a single device.

Application: Multifunctional time relays are widely used in industrial automation, building management, home intelligence and other fields, and are important tools for achieving precise time control and automated management.

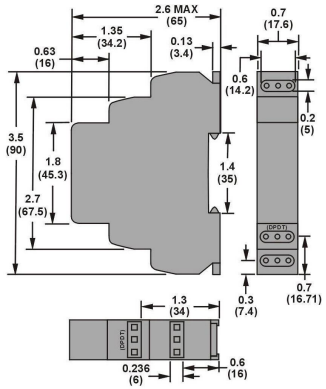
MODEL & EXPLANATION

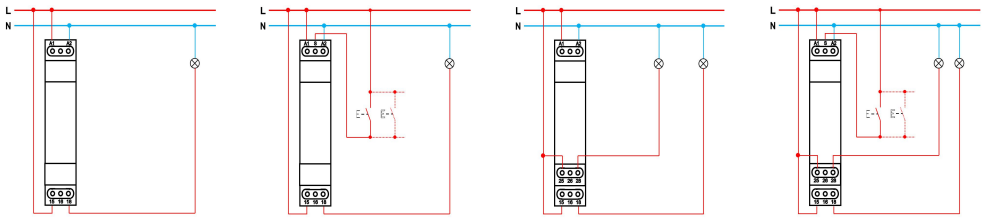
WIRING DIAGRAMS



① Power Indicator
② Work Indicator 1
③ Work Indicator 2
④ Time Ranges Selection
⑤ Time Adjustment
⑥ Function Selection

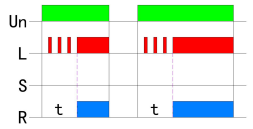
DIMENSIONS: in (mm)





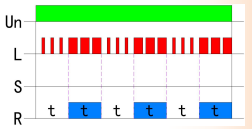
TYPE	YX531T□* YX532T□*	**Tolerance (mechanical setting)**	10%	**Mechanical life**	1×10^7
Working voltage	12VDC 24VDC 110VAC 220VAC 24-240VAC/DC 12-240VAC/DC	**Repeatability (constant voltage and temperature)**	2%	**Electrical life**	1×10^5
Output	SPDT/DPDT 10A or 16A	**Terminal wire capacity**	14AWG ($2.1mm^2$)	**Dielectric strength**	Between housing and contacts: 2500VAC Between open contacts: 1000VAC
Time Ranges	0.1S to 10 Days	**Ambient air temperature Around the device**	Operation: -20 to +55℃ Storage: -30 to +70℃	**Degree of protection**	IP20
Note	□*: **Working voltage** **220:** 220VAC **D24:** 24VDC **A24:** 24VAC **H00:** 12-240VAC/DC **H33:** 24-240VAC/DC **More...**				

A On Delay Power On



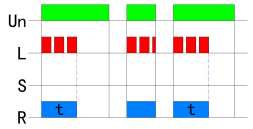
When the input voltage U is applied, timing delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their shelf state when input voltage U is removed. Trigger switch is not used in this function.

B Repeat Cycle Starting Off



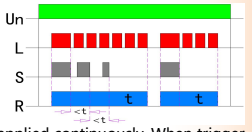
When the input voltage U is applied, timing delay t begins. When time delay t is complete, relay contacts R change state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.

C Interval Power On



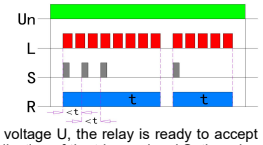
When input voltage U is applied, relay contacts R change state Immediately and timing cycle begins. When time delay is complete, contacts return to shelf state. When input voltage U is removed, contacts will also return to their state. Trigger switch is not used in this function.

D Off Delay S Break



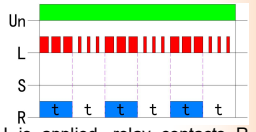
Input voltage U must be applied continuously. When trigger S is closed, relay contacts R change state. When trigger S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger S is closed before time delay t is complete, then time is reset. When trigger S is opened, the delay begins again, and relay contacts remain in their energized state, if input voltage U is removed, relay contacts R return to their shelf state.

E Retriggerable One Shot



Upon application of input voltage U, the relay is ready to accept trigger signal S. upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger signal S is opened and closed prior to time out t (before preset time elapses).Continuous cycling of the trigger signal S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their shelf state.

F Repeat Cycle Starting ON



When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their shelf state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.

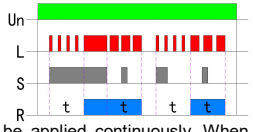
G Pulse Generator

Upon application of input voltage U ,a single output pulse of 0.5 seconds is delivered to relay offer time delay t. Power must be removed and reapplied to repeat pulse. Trigger switch S is not used in this function.

H One Shot

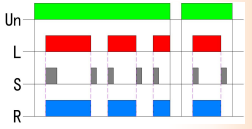
Upon application of input voltage U ,the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R trasher and the preset time t begins. During time-out,the trigger signal S is ignored. The relay resets by applying the trigger signal S when the relay is not energized.

I On/Off Delay S Make/Break



Input voltage U must be applied continuously. When trigger S is closed,time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger S is opened. If input voltage U is removed, relay contacts R return to their shelf state.

J Memory Latch S Make



Input voltage U must be applied continuously. Output changes state with every trigger S closure. If input voltage U is removed, relay contacts R return to their shelfsate.

Caution:
Installation must be carried out in accordance with current norms. Installation, connection, dismantling and servicing should be carried out by a qualified electrician who understands the contents of this manual and the function of each appliance.
Before installation, make sure that the main switch is in the 'OFF' position and that the appliance should not be energised, a qualified installation must ensure that the appliance is installed in a temperature-controlled environment, ensuring that the specified maximum operating temperature is not exceeded, and that a 2 mm tip screwdriver is used for the installation.

If you experience problems, do not immediately return the unit to the store.
Email the Helpline: Sue@yaoxuele.com
Qualified Customer Support Coordinators will be to assist in resolving your query.

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