

## YCT8 Time Relay



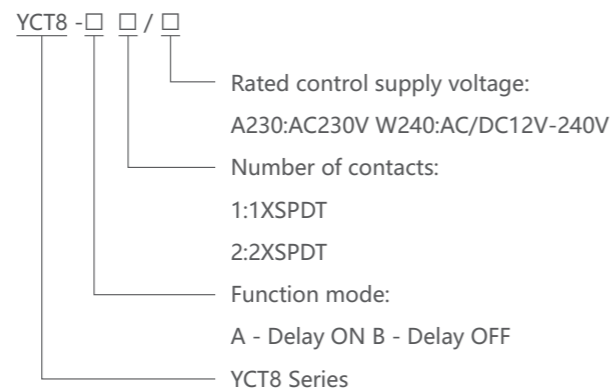
### Applications

- Suitable for applications where function and time requirements are know.
- Time switch , possible to be used for pump decay time after switching heating off, switching of fans.

### Function Features

- Single-function relay with possibility of time setting by a potentiometer. -Choice of 2 functions:
- A:Delay ON
- B:Delay OFF
- Time scale 0.1 s -10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

### Type Designation



## YCT8 Time Relay

### Technical parameters

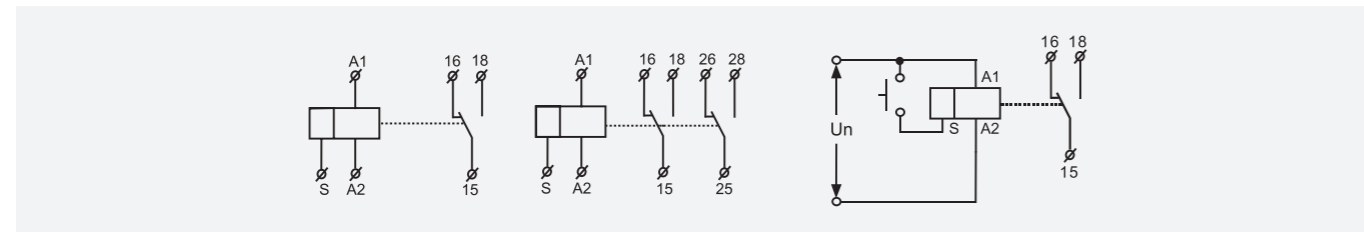
Technical parameters	YCT8-A1/B1	YCT8-A2/B2
Function	A,B,C,D,E,F,G,H,I,J	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 <sup>7</sup>	
Electrical life(AC1)	1X10 <sup>5</sup>	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°Fto131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max.cable size(mn <sup>2</sup> )	solid wire max.1X2. 5or2X1. 5/with sleeve max.1X2.5 (AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-60g 2XSPDT:W240-82g,A230-81g	
Standards	EN 61812-1,IEC60947-5-1	

# YCT8 Time Relay

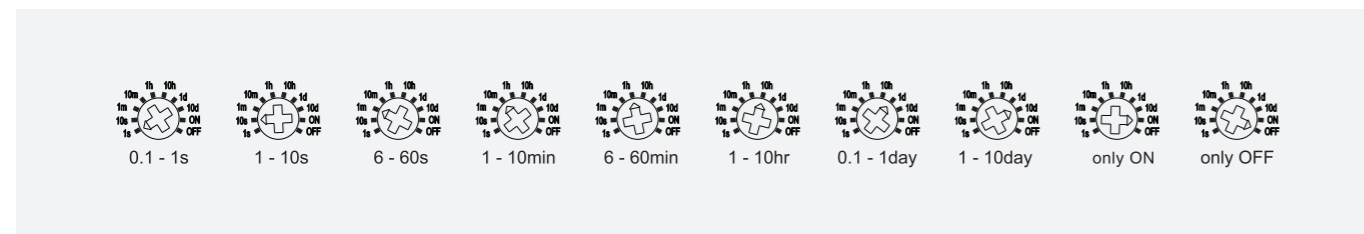
## Functions Diagram



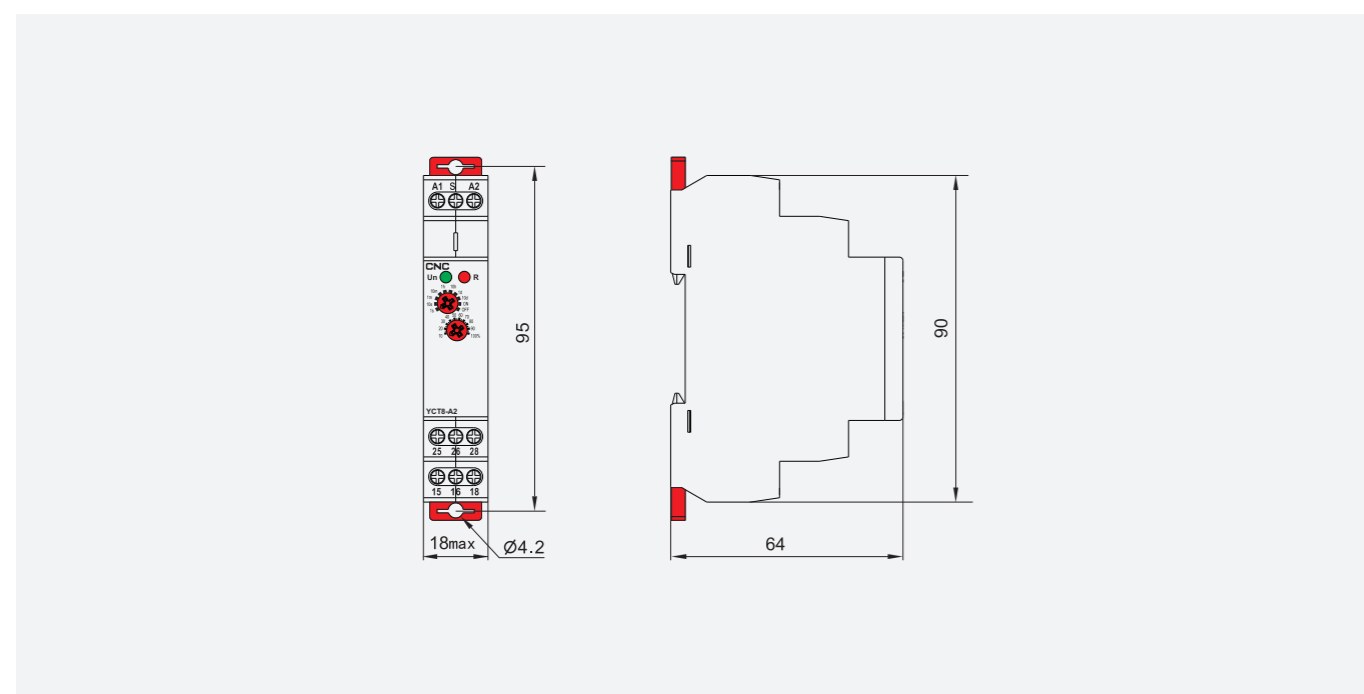
## Wiring Diagram



## Time Range



## Dimensions(mm)



# YCT8 Time Relay

## Applications

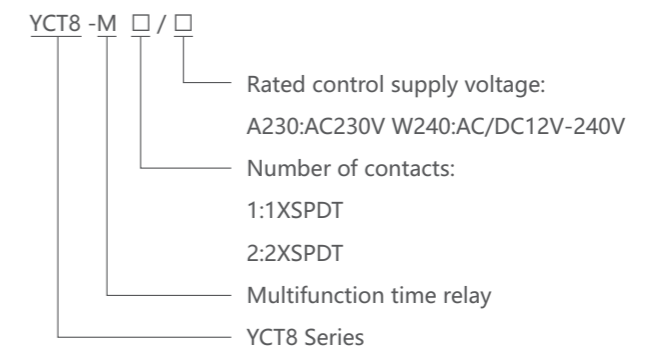
-Multifunction time relay can be used for electrical appliances, control of lights, heating, motors, pumps and fans (10 functions, 10 time ranges, multi-voltage).

## Function Features

- 10 functions: - 5 time functions controlled by supply voltage
- 4 time functions controlled by control input
- 1 function of latching relay
- Comfortable and well-arranged function and time-range setting by rotary switches.
- Time scale 0.1 s -10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.



## Type Designation



# YCT8 Time Relay

## Technical parameters

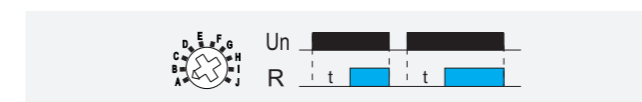
Technical parameters	YCT8-M1	YCT8-M2
Function	A,B,C,D,E,F,G,H,I,J	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05°F, at=68°F)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 <sup>7</sup>	
Electrical life(AC1)	1X10 <sup>5</sup>	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°Fto131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max.cable size(mn <sup>2</sup> )	solid wire max.1X2. 5or2X1. 5/with sleeve max.1X2.5 (AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-60g	2XSPDT:W240-82g,A230-81g
Standards	EN 61812-1,IEC60947-5-1	

# YCT8 Time Relay

## Functions Diagram

### A:On Delay (Power On)

When the input voltage U is applied, timing delay t begins. Relay con-tacts 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.



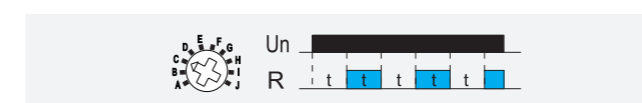
### B:Interval (Power On)

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 shelfstate. Trigger switch is not used in this function.



### C:Repeat Cycle (Starting Off)

When input voltage U is applied, time 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.



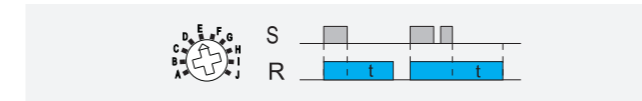
### D: Repeat Cycle (Starting On)

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.



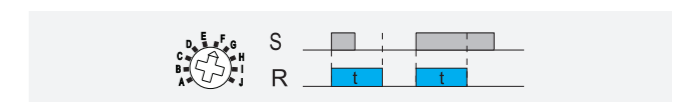
### E: Off Delay (S Break)

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



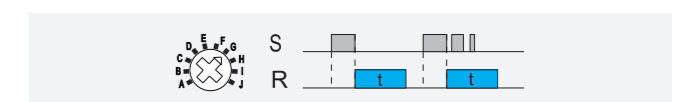
### F:Single Shot

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. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger switch S when the relay is not energized.



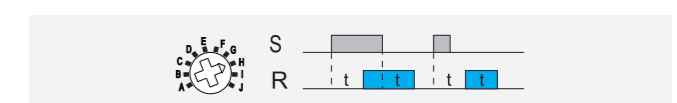
### G:Single Shot Trailing Edge (Non-Retriggerable)

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 switch S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger switch 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.



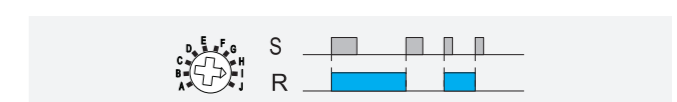
### H:On/Off Delay

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



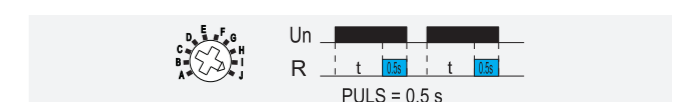
### I: Latching relay

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

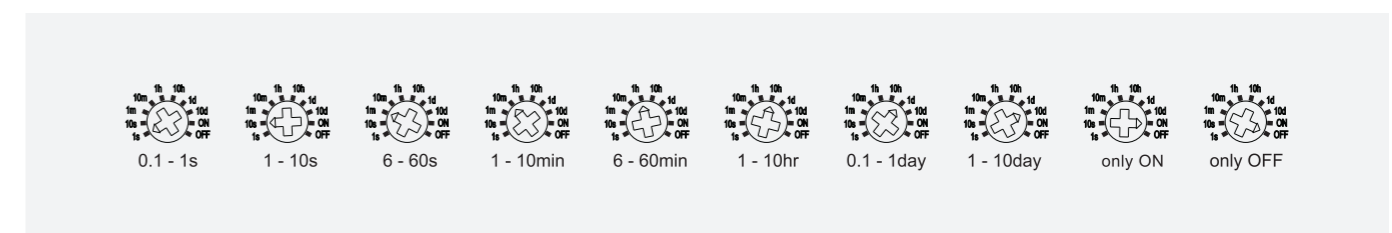


### J:Pulse generator

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



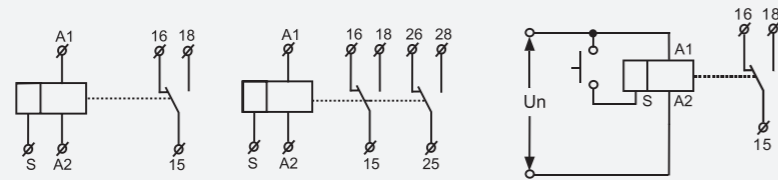
## Time Range



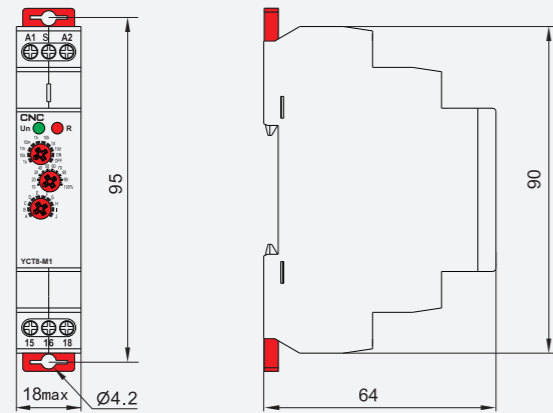
## Motor Control & Protection

### YCT8 Time Relay

#### Wiring Diagram



#### Dimensions(mm)



## Motor Control & Protection

### YCT8 Time Relay



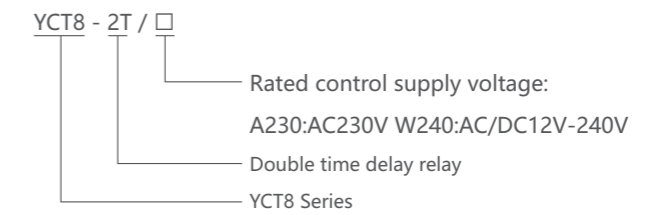
#### Applications

-For gradual switching of heavy powers (e.g. el.heating), prevents current strokes in the main.

#### Function Features

- 2x Delay ON (2 time relays in one)
- Time scale 0.1s -10 days divided into 10 time ranges: 0.1s-1s/1s-10s/ 0.1 min -1 min / 1min - 10min /0.1h - 1h/ 1h - 10hrs / 0.1 day -1 day /1 day -10 days / ON / OFF.
- Times t1 and t2 are independantly adjustable.
- t1 and t2 are switched on after supply voltage connection
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

#### Type Designation



## Motor Control & Protection

### YCT8 Time Relay

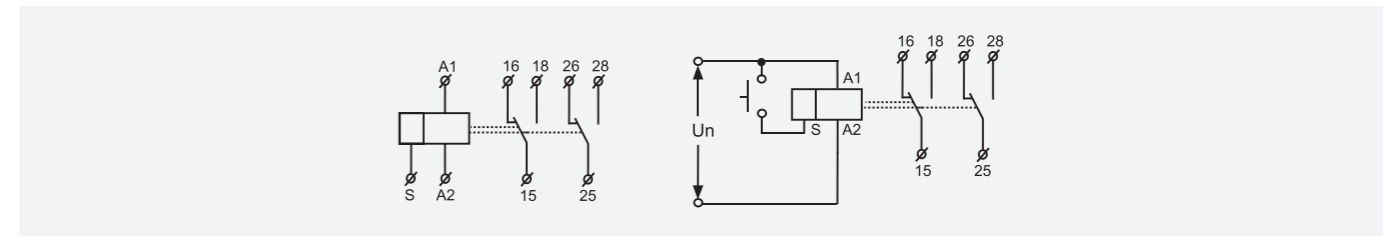
#### Technical parameters

Technical parameters	YCT8-2T
Function	2x Delay ON
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.7W
Voltage range	AC230V(50-60Hz)
Power input	ACmax.6VA/1.9W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.1s-10days,ON,OFF
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X107
Electrical life(AC1)	1X105
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4Tto131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 forfront panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mrrf)	solid wire max.1X2. 5or2X1.5/with sleeve max.1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-82g
Standards	EN61812-1JEC60947-5-1

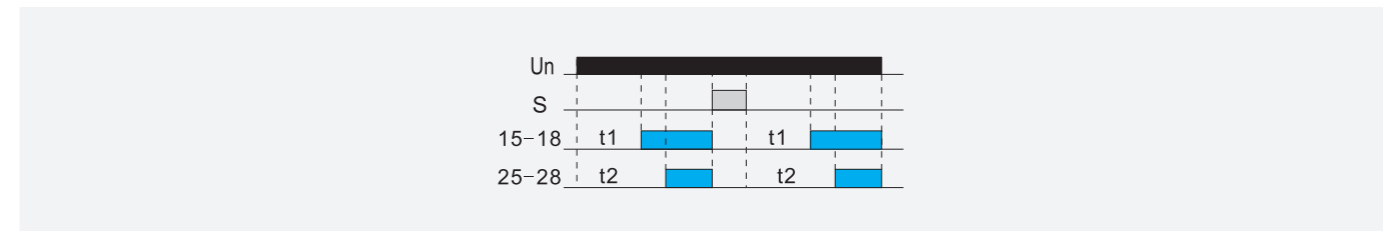
## Motor Control & Protection

### YCT8 Time Relay

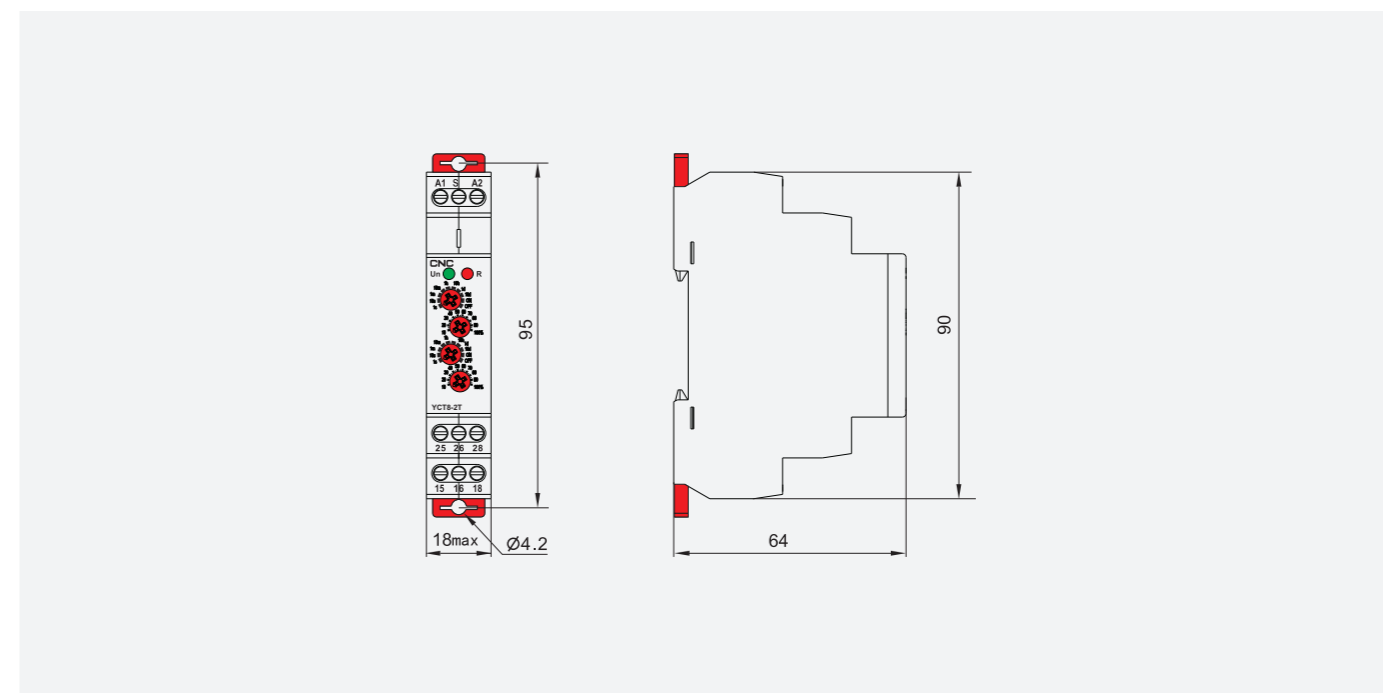
#### Wiring Diagram



#### Functions Diagram



#### Dimensions(mm)



## YCT8 Time Relay



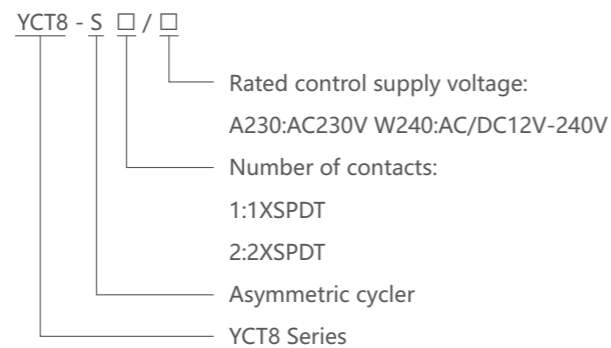
### Applications

-It is used for regular room ventilation, cyclic dehumidification, light control, circulating pumps, noon signs, etc.

### Function Features

- 2 time functions:
- Cycler beginning with pulse
- Cycler beginning with pause
- Function choice is done by an external jumper of terminals S-A1.
- Time scale 0.1 s -100 days divided into 10 time ranges:  
(0.1 s -1 s/1 s- 10s/0.1 min -1 min /1 min -10 min /0.1 hrs -1 h /1 hrs -10 hrs / 0.1 day -1 day/1 day -10 days /3 days - 30 days / 10 days -100 days).
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

### Type Designation



## YCT8 Time Relay

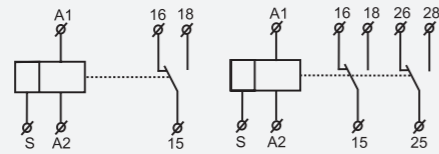
### Technical parameters

Technical parameters	YCT8-S1	YCT8-S2
Function	Asymmetric cycler time relay	
Supply terminals	A1-A2	
Voltage range	AC/DC12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%; + 10%	
Supply indication	green LED	
Time ranges	0.1s-10days	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05%T, at=68T)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X107	
Electrical life(AC1)	1X105	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4T to 131T)	
Storage temperature	-35°C to +75°C (-22T to 158T)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage cathegory	III.	
Pollution degree	2	
Max.cable size(mn <sup>2</sup> )	solid wire max.1X2.5or2X1. 5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-61g 2XSPDT: W240-82g,A230-82g	
Standards	EN 61812-1,IEC60947-5-1	

## Motor Control & Protection

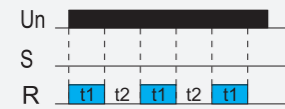
### YCT8 Time Relay

#### Wiring Diagram

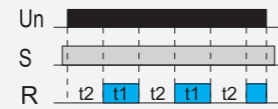


#### Functions Diagram

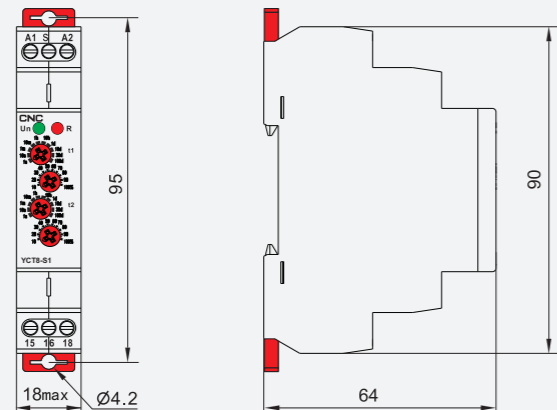
Cycler beginning with pulse



Cycler beginning with pause(jumper A1-S)



#### Dimensions(mm)



## Motor Control & Protection

### YCT8 Time Relay



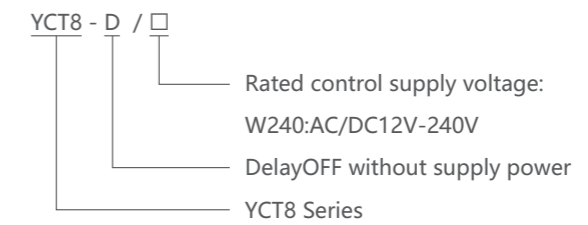
#### Applications

-Back-up source for Delay OFF in case of voltage failure (emergency lighting, emergency respirator, or protection of el. controlled doors - in case of fire).

#### Function Features

- Time range (adjustable by rotary switch and fine setting by potentiometer): 0.1 s - 10 min.
- Voltage range: AC/DC12-240V , clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

#### Type Designation



## Motor Control & Protection

### YCT8 Time Relay

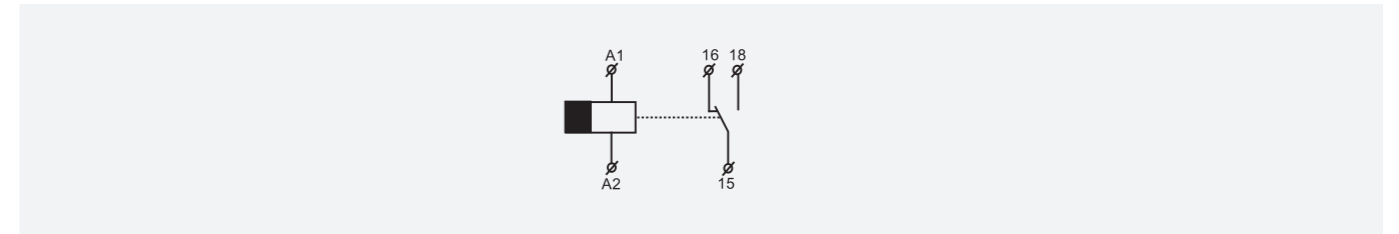
#### Technical parameters

Technical parameters	YCT8-D
Function	Delay OFF without supply power
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.5W
Supply voltage tolerance	-15%; + 10%
Supply indication	green LED
Time ranges	0.1s-10min
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Minimum power time	3s
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)
Output	1XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X106
Electrical life(AC1)	5X104
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4T to131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mn?)	solid wire max.1X2.5or2X1,5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	66g
Standards	EN 61812-1,IEC60947-5-1

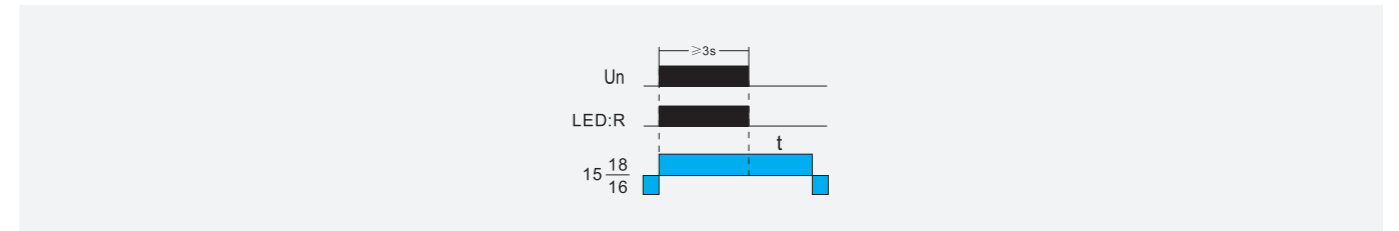
## Motor Control & Protection

### YCT8 Time Relay

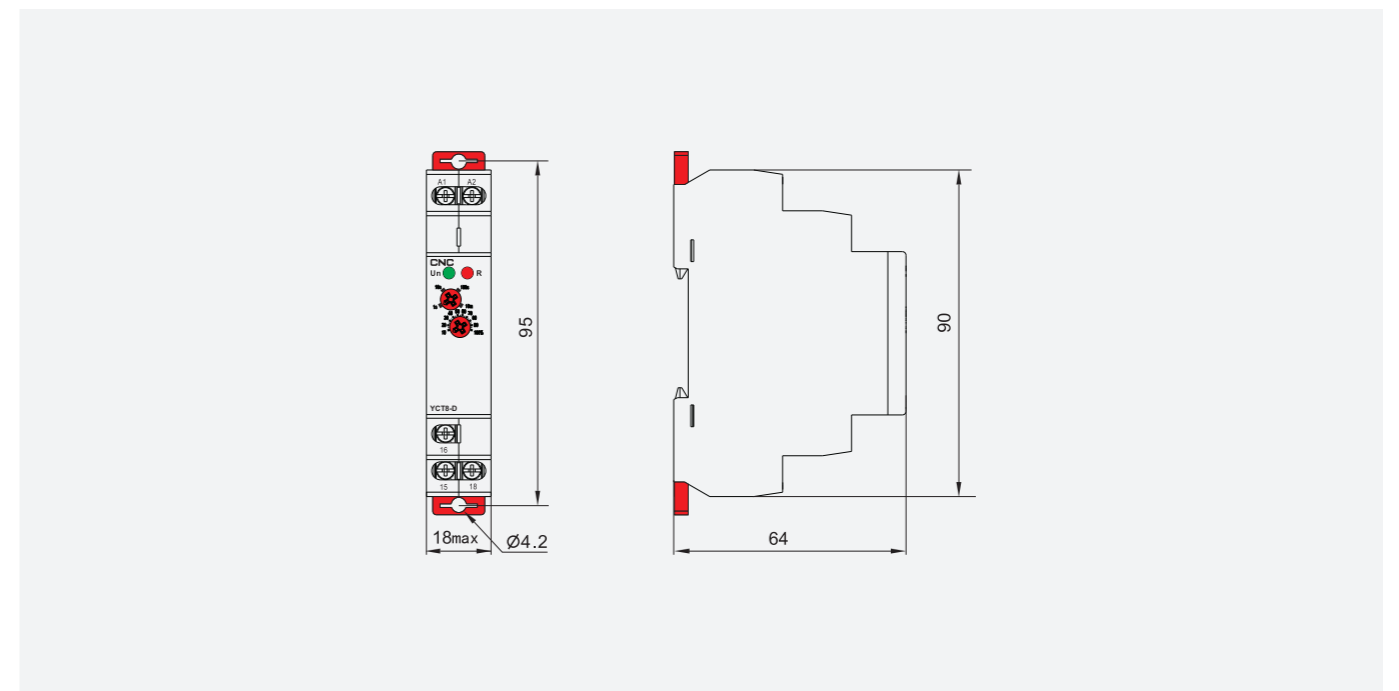
#### Wiring Diagram



#### Functions Diagram



#### Dimensions(mm)





## YCT8 Time Relay



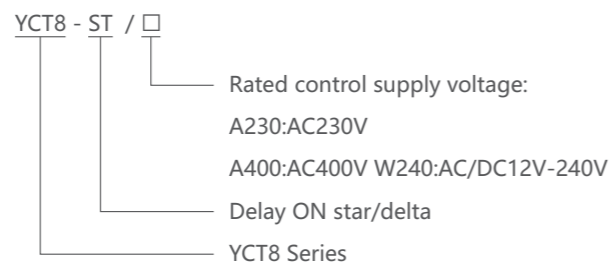
### Applications

-Designated for delay ON of motors star/delta.

### Function Features

- Time t1 (star):  
time scale 0.1 s - 10min divided into 4 time ranges rough time setting by rotary switch.
- Time t2 (delay):  
time scale 0.1 s - 1 s  
time setting by potentiometer
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

### Type Designation

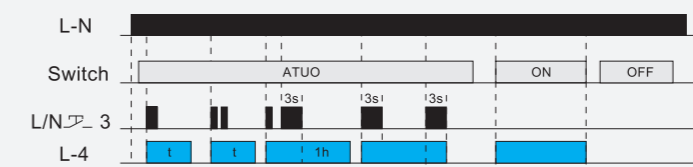


## YCT8 Time Relay

### Technical parameters

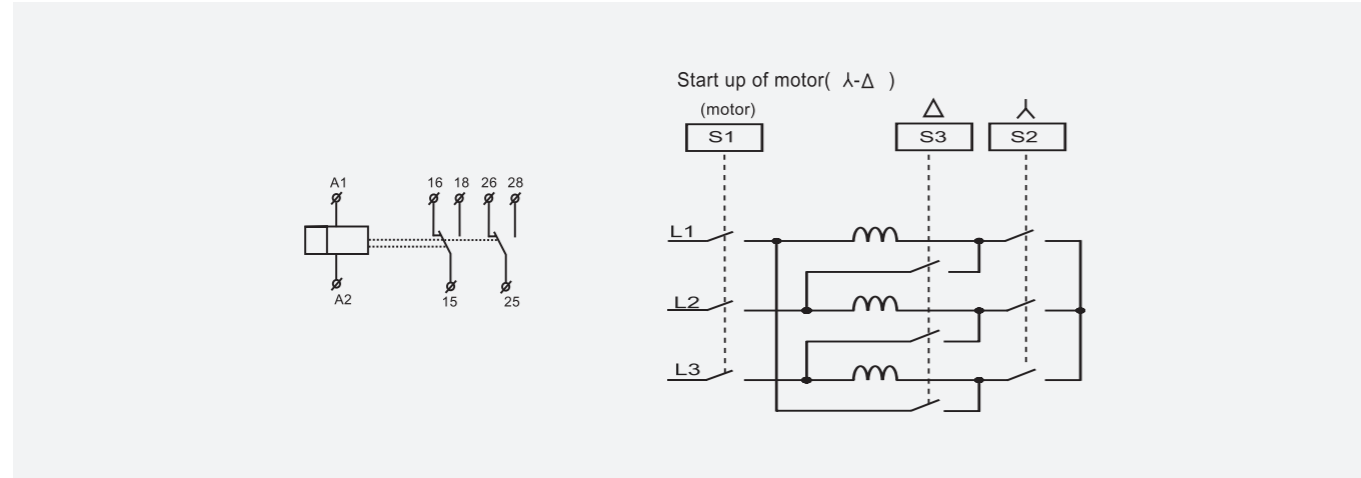
Technical parameters	YCT8-LS
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC0.3-2VA/DC0.1-1.2W
Voltage rangeo	AC 230V/AC400V(50-60Hz)
Power input < <	ACmax.6VA/1.3W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	Range of time delay H : 0.1 s-10 min .Switch time t2:0.1 s-1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/oC,at=20oC(0.05%T, at=68T)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X107
Electrical life(AC1)	1X105
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131T)
Storage temperature	-35°C to +75°C (-22T to 158T)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mrr?)	solid wire max.1X2.5or2X1.5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-80g
Standards	EN 61812-1,IEC60947-5-1

### Functions Diagram

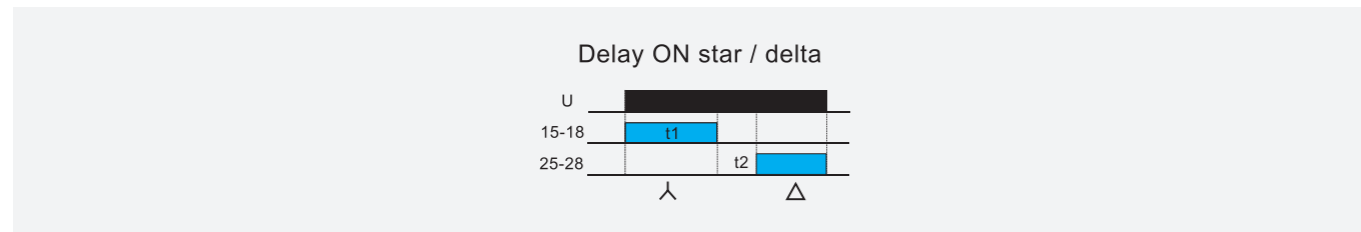


## YCT8 Time Relay

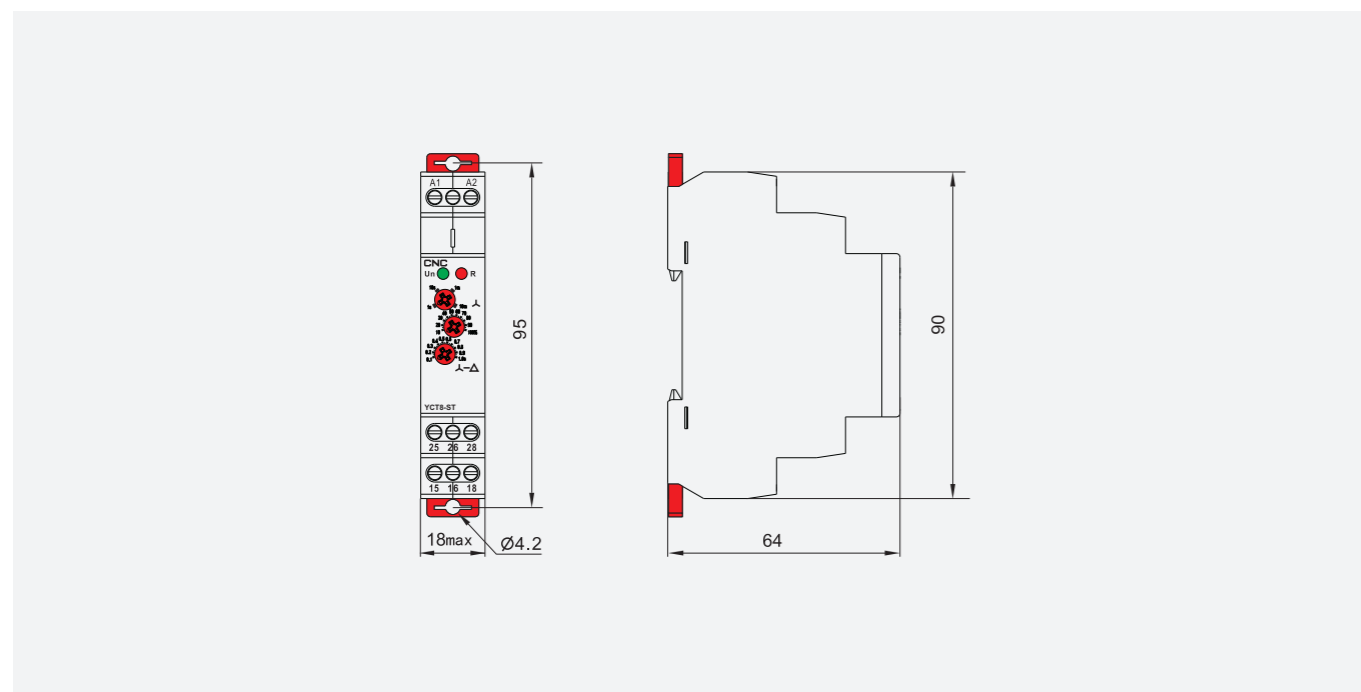
### Wiring Diagram



### Functions Diagram



### Dimensions(mm)



## YCT8 Time Relay



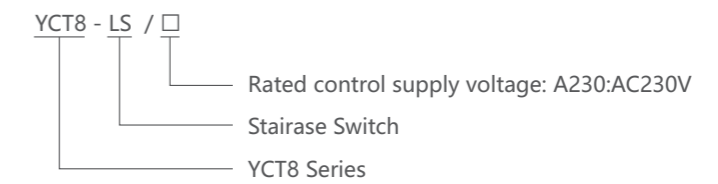
### Applications

-It is used for delayed switching of lights in the corridors, entrances, stairways, halls or for delayed finish of fans (WC, bathroom, etc.).

### Function Features

- Operating system switch:  
ON - output is constantly ON .  
AUTO - timing according to adjusting by potentiometer in range 0.5 - 20 min OFF-  
output is constantly OFF .
- Voltage range: AC 230 V, clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

### Type Designation



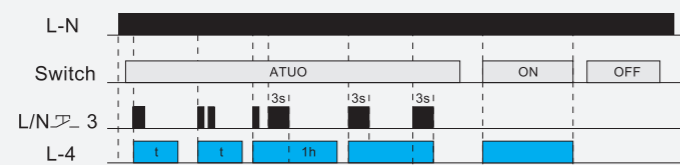
## Motor Control & Protection

### YCT8 Time Relay

#### Technical parameters

Technical parameters	YCT8-LS
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC0.3-2VA/DC0.1-1.2W
Voltage rangeo	AC 230V/AC400V(50-60Hz)
Power input < <	ACmax.6VA/1.3W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	Range of time delay H : 0.1 s-10 min .Switch time t2:0.1 s-1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/oC,at=20oC(0.05%T, at=68T)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X107
Electrical life(AC1)	1X105
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131T)
Storage temperature	-35°C to +75°C (-22T to 158T)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mrr?)	solid wire max.1X2.5or2X1.5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-80g
Standards	EN 61812-1,IEC60947-5-1

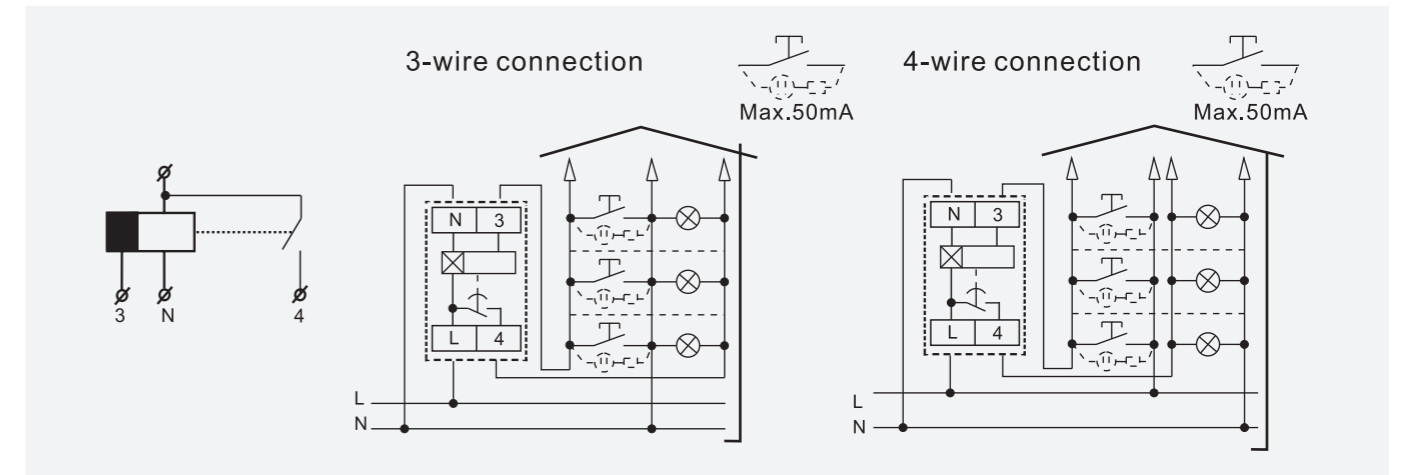
#### Functions Diagram



## Motor Control & Protection

### YCT8 Time Relay

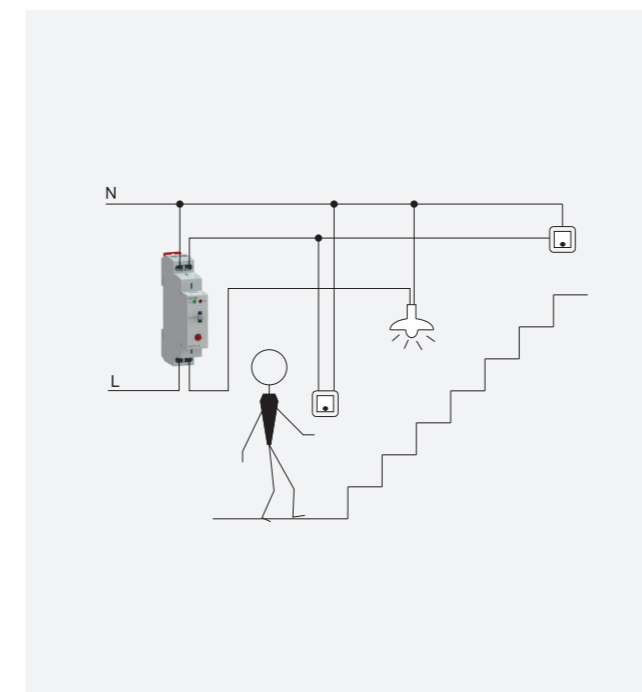
#### Wiring Diagram



#### Types of lamps

2000W	2000W	1000W	900W(125uF)	400W	300W

#### Example



#### Dimensions(mm)

