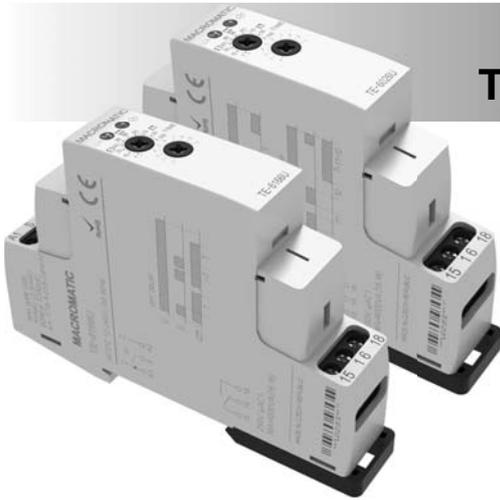


Modular Style Time Delay Relays

TE-6026U
TE-6166U

901-0000-351
June 2021

Single-function time relay



FEATURES

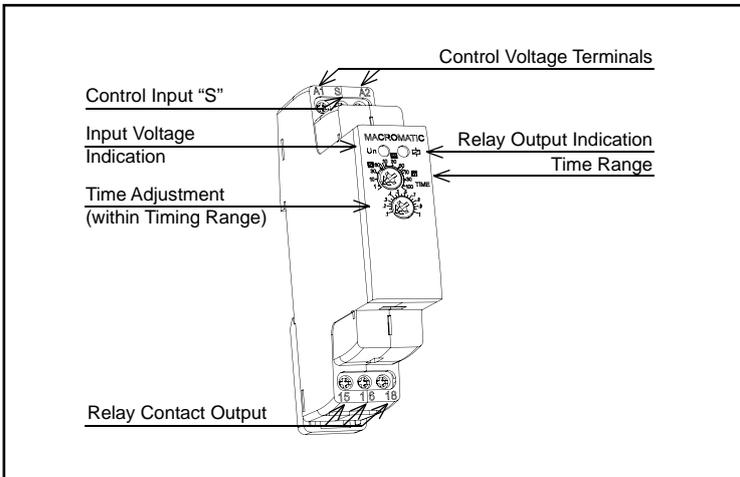
- Single-function time relays are suitable for applications where timing function does not change.
- All functions initiated by the control voltage can use the control input to inhibit the ongoing delay (pause).
- Universal control voltage 12 - 240V AC/DC .
- Time scale 0.1 s - 100 hrs divided into 10 ranges:
- (0.1 s - 1 s / 1 s - 10 s / 3 s - 30 s / 6 s - 60 s / 1 min - 10 min / 3 min - 30 min / 6 min - 60 min / 1 h - 10 hrs / 3 hrs - 30 hrs / 10 hrs - 100 hrs).
- Output contact: 1 x changeover / SPDT 10 A
- Multifunction LED flashes RED or steady RED depending on relay status.



This device is designed for connection of 1-phase voltage, 12-240 V AC/DC and must follow all National, State & Local Codes. Connections must be made according to details in this instruction sheet. Installation, connections, setting and servicing should be performed by qualified personnel.

BE SURE TO REMOVE ALL POWER SUPPLYING THIS EQUIPMENT BEFORE CONNECTING OR DISCONNECTING WIRING. Qualified installer must also ensure the device is being installed into a temperature controlled environment which will guarantee not to exceed the specified maximum operating temperature. For installation use a screwdriver with 2 mm tip.

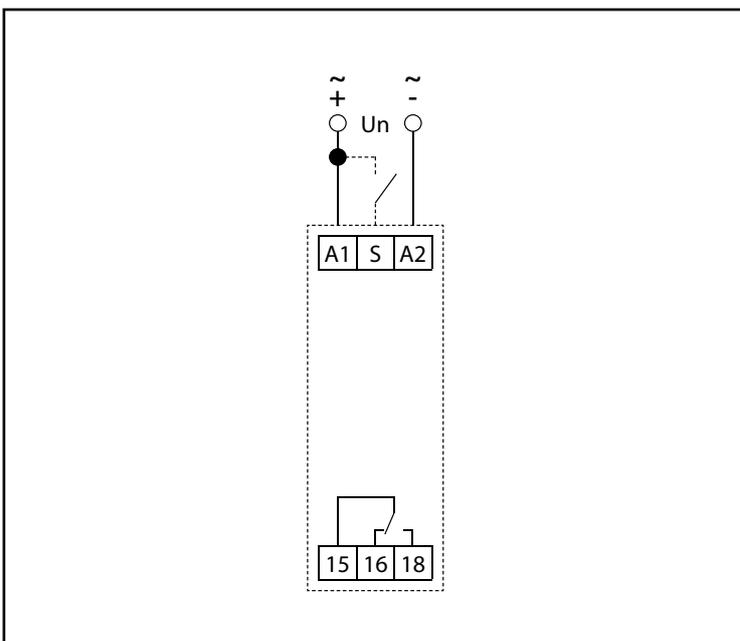
DESCRIPTION



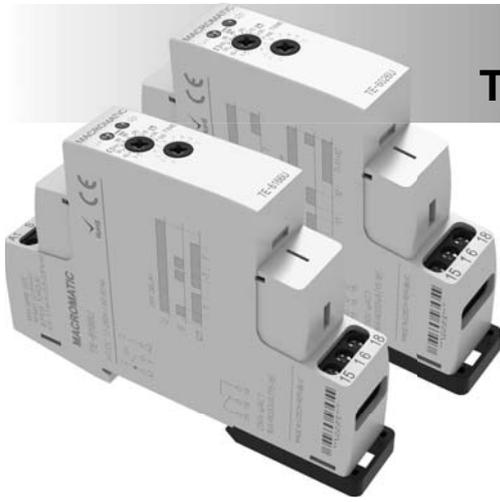
TE-6026U, TE-6166U

Control Voltage(Un)	
Control Voltage terminals:	A1, A2
Control Voltage range:	AC/DC 12 - 240 V (AC 50 - 60 Hz)
Burden (max.):	2 VA
Control voltage tolerance:	-15 %; +10 %
Control voltage indication:	green LED
Time circuit	
Time ranges:	0.1 s - 100 h
Time setting:	rotary switch and potentiometer
Time deviation:	5 % - mechanical setting
Repeat accuracy:	0.2 % - set value stability
Temperature coefficient:	0.01% / °C, at =20 °C (0.01 % / °F, at = 68°F)
Relay Output	
Relay Contact Output:	1x changeover / SPDT (AgNi)
Current rating:	10 A
Breaking capacity:	2500 VA
Electrical life (AC1):	50 000 operations
Switching voltage:	250V AC
Output indication:	Red LED
Mechanical life:	10 000 000 operations
Control	
Control terminals:	A1-S
Load between S-A2:	Yes
Impulse length:	min. 25 ms / max. unlimited
Reset time:	max. 150 ms
Other information	
Operating temperature:	-20 °C to +55 °C (-4 °F to 131 °F)
Storage temperature:	-30 °C to +70 °C (-22 °F to 158 °F)
Dielectrical strength: supply - output 1	4kV AC
Operating position:	any
Mounting:	DIN rail EN 60715
Protection degree:	IP40 from front panel / IP20 terminals
Overvoltage category:	III.
Pollution degree:	2
Wiring Terminals:	Tightening Torque: 3.5 in-lbs (0.4Nm) Solid or stranded wire, AWG 12-22
Dimensions:	90 x 17.6 x 64 mm (3.5 x 0.7 x 2.5 inch)
Weight:	61 g (2.2 oz)

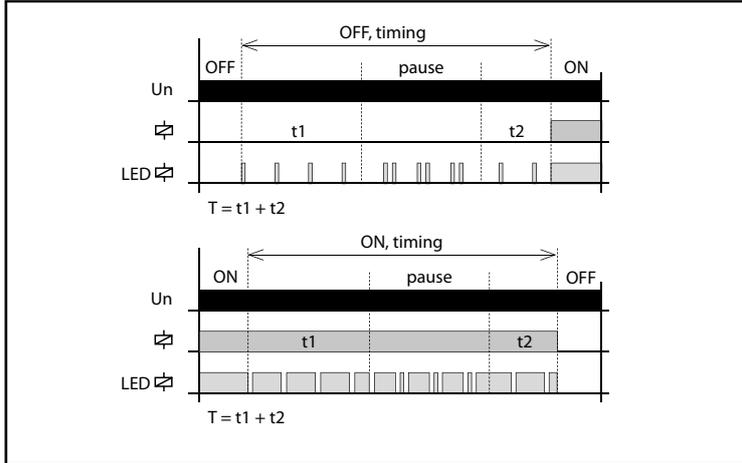
WIRING DIAGRAM



Modular Style Time Delay Relays



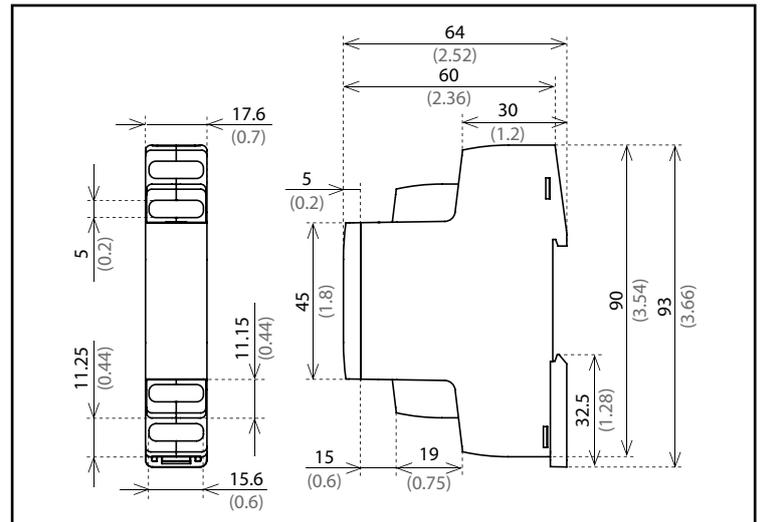
LED STATUS INDICATION (RED)



MORE ACCURATE SETTING OF TIMING FOR LONG PERIODS OF TIME

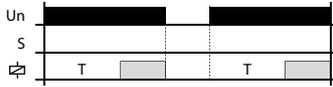
Example of time setting to 8 hours period:
For rough setting use time scale 1-10s on the potentiometer.
For fine time setting aim for 8s on potentiometer, then recheck accuracy (using stopwatch etc).
On rough time setting, set potentiometer to originally desired scale 1-10 hours, leave a fine setting as it is.

DIMENSIONS (INCHES / MILLIMETERS)



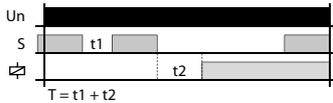
FUNCTIONS

ON DELAY (TE-6026U)



When the supply voltage is applied, the time delay T begins. When the timing is complete, the relay closes and this condition continues until the supply voltage is disconnected.

ON DELAY with Inhibit (TE-6026U)



If the control contact is closed and the supply voltage is connected, the relay is opened and timing does not start until the control contact opens. When the timing is complete, the relay closes. If the control contact is closed during timing, the timing is interrupted and continues only after the control contact opens.

OFF DELAY (TE-6166U)



When the supply voltage is applied, the relay is open. When the control contact is closed, the relay closes. When the control contact opens, the time delay T begins. If the timing is complete, the relay closes. If the control contact is closed during timing, the time is reset and the relay remains closed. When the control contact opens, the time delay T starts again and opens when the relay closes.