Electronic Multifunction Timer TA11-A

IMO

New short-body on-delay, signal off-delay, one shot or flicker (re-cycling) timer modes, with 16 ranges, selectable from the front panel.

- 4 operation modes
- Timing ranges 0.05 secs to 60 hours
- 16 ranges, front panel selectable
- Indications for time range, operation mode, time up and power on/timing
- DPCO output relay
- New scale ranges for ease of time setting
- Instantaneous output with dial set at 0
- Improved resistance to electromagnetic interference
- 48-DIN
- Plug-in 11-pin base
- Sockets available for panel, surface or DIN rail mounting
- Approved by standards: UL and CSA

Options and ordering codes

TA11-A

24VAC/DC	**voltage**
100-240VAC	
48-127VDC	

Specification

Timing ranges (selectable)

Calibrated range – selected using screw in bottom left corner of front panel	**Controlled timing range. Time unit selectable using the screw in the bottom right hand corner of the front panel**			
	Time unit: 0.1 sec.	**Time unit: sec.**	**Time unit: min.**	**Time unit: hrs.**
0-6	0.05-0.6 secs.	0.5-6 secs.	0.5-6 mins.	0.5-6 hrs.
0-12	0.1-1.2	1-12	1-12	1-12
0-30	0.25-3	2.5-30	2.5-30	2.5-30
0-60	0.5-6	5-60	5-60	5-60

Repeat accuracy	±0.3% at max. setting time
Reset time	0.1 sec or less
Max. switching frequency	1800 times/hour
Allowable ambient temperature	–10˚C to +55˚C (Avoid ice on timer)
Mechanical life	20 million operations or more
Electrical life	100,000 operations or more at 250 V AC 5A resistive load
Allowable operating voltage range	0.85 to 1.1 times input voltage (0.9 to 1.1 at 55˚C)
Contact ratings	5A at 250 V AC resistive load
Power consumption	10VA at AC, 1W at DC
Supply frequency AC types	50/60 Hz
Dielectric strength	2,000 V AC rms. 1 min. between current carrying part and non current carrying part
	2,000 V AC rms. 1 min. between output contacts and control circuit
	1,000 V AC rms. 1 min. between open contacts
Insulation resistance	100 MΩ or more at 500 V DC megger
Vibration	Mechanical durability: 10 to 55Hz, 0.75mm double amplitude
	Mechanical durability: 10 to 55Hz, 0.5mm double amplitude
Shock	Mechanical durability: 500m/s² (Approx. 50G)
	Malfunction durability: 100m/s² (Approx. 10G)

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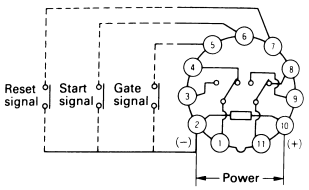
Wiring diagram and operating modes

Mode selected by turning the screw in the top left hand corner of the front panel.

CAUTION: Do not touch terminals 5, 6 and 7 while power is applied to the timer.



1. On-delay PO

- Turn the mode selector until PO is displayed.
- When power is ON, applying the start signal turns the NO (normally open) timed contact ON after the set time has elapsed.
- For power-on-delay operation, the start signal terminals (2 and 6) must be connected in advance.
- The timer is reset by the removal of power or by applying a reset signal.

2. Flicker (Repeat cycle) FL

- Turn the mode selector until FL is displayed.
- When power is ON, applying the start signal turns the timed contact ON and OFF repeatedly at the set time intervals.
- The timer is reset by the removal of power or by applying a reset signal.

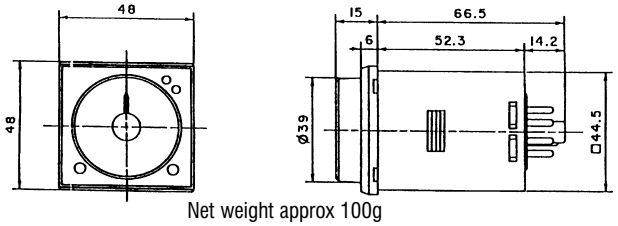
3. One-shot momentary actuation OS

- Turn the mode selector until OS is displayed.
- When power is ON, applying the start signal instantly turns the NO timed contact ON and turns it OFF after the set time has elapsed.
- Removing power while the timer is in operation or applying a reset signal resets the timer.

4. Signal off-delay SF

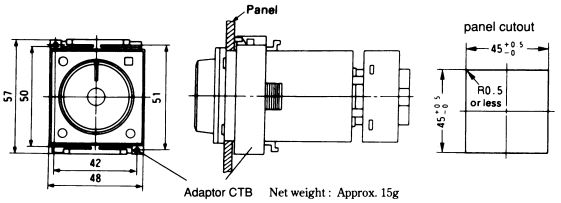
- Turn the mode selector until SF is displayed.
- When power is ON, applying the start signal instantly turns the NO timed contact ON. Removing the start signal turns the contact OFF after the set time has elapsed.
- Removing power while the timer is in operation or applying a reset signal resets the timer.

Dimensions (mm)



Net weight approx 100g

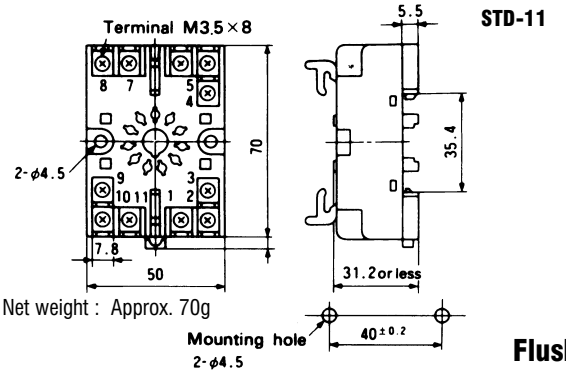
Flush mounting



Note: For flush mounting, an adaptor CTB is required (sold separately)

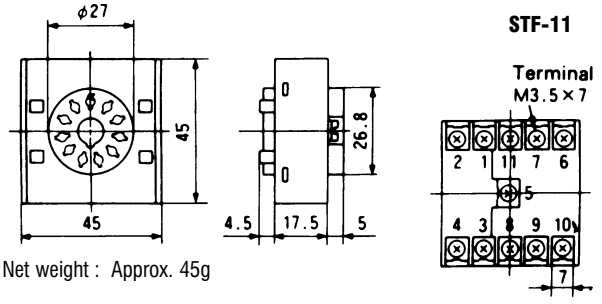
Sockets

Surface/track mounting – screw terminal



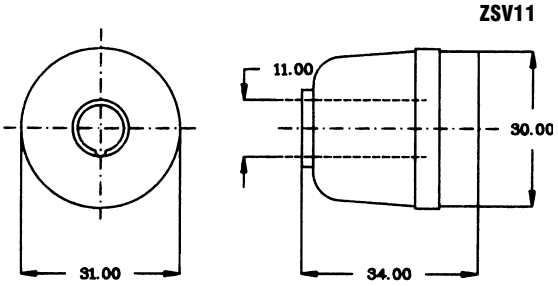
Net weight : Approx. 70g

Flush mounting – screw terminal



Net weight : Approx. 45g

Flush mounting – solder terminal



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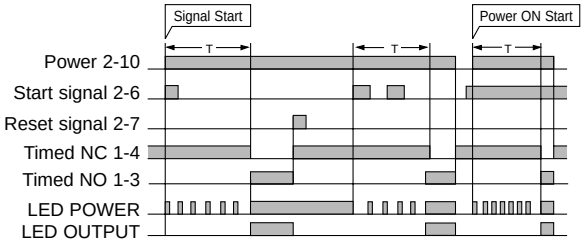
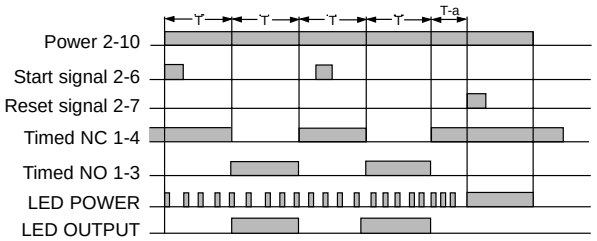
Timer

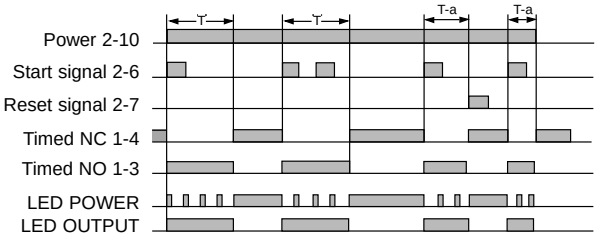
1. On-delay PO



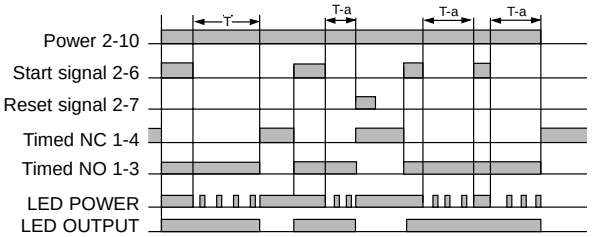
2. Flicker (Repeat cycle) FL



3. One-shot momentary actuation OS



4. Signal off-delay SF



Notes:

T = Set time, T-a=Time period within the set time.

- Applying a gate signal pauses the operation, (timing does not continue during a gate signal). Timing will resume at the point where it left, as soon as the gate signal is removed.
- Each signal can be input by short circuiting the relevant terminals.
- Power LED lights up when power is ON, but flickers during timing.