Electronic On-Delay Timers
TA8-A/TA8-SA

New short body on-delay timers, with 16 ranges selectable from front panel. Plug-in or panel mounting

- Timing ranges 0.05 secs to 60 hours
- 16 ranges, front panel selectable
- DPCO timed contacts or SPCO timed plus SPCO instantaneous contact versions
- New scale ranges for ease of time setting
- Instantaneous output with dial set at 0
- Improved resistance to electromagnetic interference
- Indicators for time range, time up and power on/timing
- 48-DIN
- Plug-in octal base
- Sockets available for panel, surface or DIN rail mounting
- Approved by standards: UL and CSA

3 YEAR GUARANTEE

Options and ordering codes

DPCO		**TA8-A**	**SPCO**		**TA8-SA**
	24VAC/DC			24VAC/DC	
	100-240VAC	**voltage**		100-240VAC	**voltage**
Timed contacts	48-127VDC		Timed contacts plus instantaneous contacts	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
	Malfunction durability: 10 to 55Hz, 0.5mm double amplitude
Shock	Mechanical durability: 500m/s^2 (Approx. 50G)
	Malfunction durability: 100m/s^2 (Approx. 10G)

Timing and wiring diagrams

TA8-A

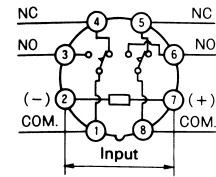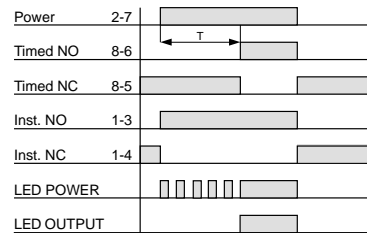|		
Power	2-7	
Timed NO	1-3 8-6	T
Timed NC	1-4 8-5	
LED POWER		
LED OUTPUT		
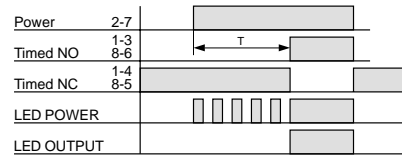
- When power is applied, the NO timed contacts make after the set time has elapsed.
- When power is removed the timer resets.

TA8-SA

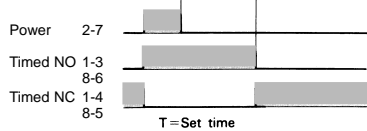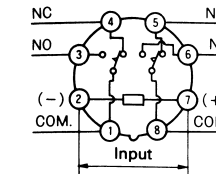|		
Power	2-7	
Timed NO	8-6	T
Timed NC	8-5	
Inst. NO	1-3	
Inst. NC	1-4	
LED POWER		
LED OUTPUT		

- Timed contact
  When power is applied, the NO contact makes after the set time has elapsed.
  When power is removed, the timer resets.
- Instantaneous contact
  When power is applied, the NO contact makes instantly.
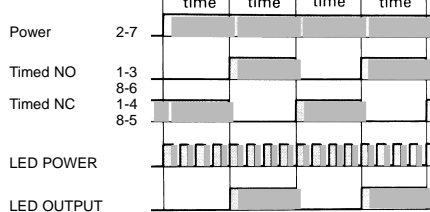 When power is removed, the timer resets.

TA8-DA

|		
Power	2-7	T
Timed NO	1-3 8-6	
Timed NC	1-4 8-5	
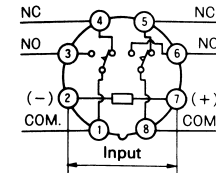
T = Set time

- When power (2-7) is ON, the NO timed contacts (1-3, 8-6) are instantly closed. When power is OFF, they are opened after the set time has elapsed.
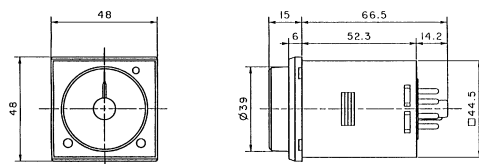
TA8-TA

		OFF time	ON time	OFF time	ON time
Power	2-7				
Timed NO	1-3 8-6				
Timed NC	1-4 8-5				
LED POWER					
LED OUTPUT					

- When power (2-7) is ON, the NO (1-3, 8-6) and the NC (1-4, 8-5) timed contacts are alternately closed to repeat the ON-OFF operations.
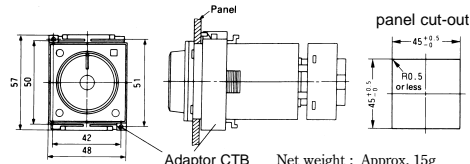- When power is OFF the timer resets.
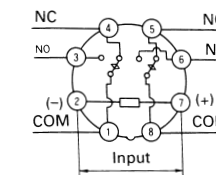
Dimensions (mm)

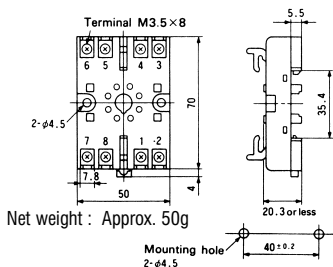Net weight : Approx. 100g

Flush mounting

Note: For flush mounting, an adaptor CTB is required (sold separately).
When ordering, specify the adaptor type.

Sockets

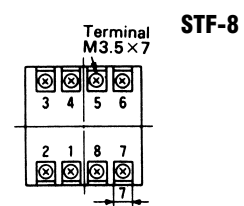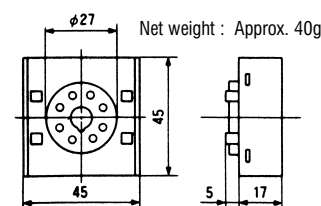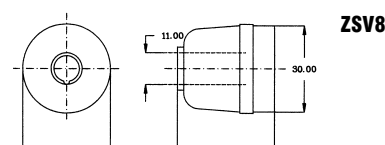### Surface/track mounting – screw terminal

STD-8

Net weight : Approx. 50g

Flush mounting – screw terminal

Net weight : Approx. 40g

STF-8

Flush mounting – solder terminal

ZSV8

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	
100-240VAC	**voltage**
48-127VDC	

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0-60	0.5-6	5-60	5-60	5-60

|	
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Reset time	0.1 sec or less
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Vibration	Mechanical durability: 10 to 55Hz, 0.75mm double amplitude
	Mechanical durability: 10 to 55Hz, 0.5mm double amplitude
Shock	Mechanical durability: 500m/s^2 (Approx. 50G)
	Malfunction durability: 100m/s^2 (Approx. 10G)

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.
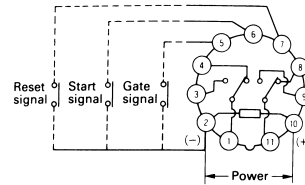
1. On-delay PO

- 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.
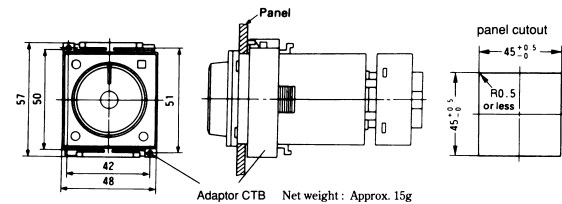
4. Signal off-delay SF

- 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.
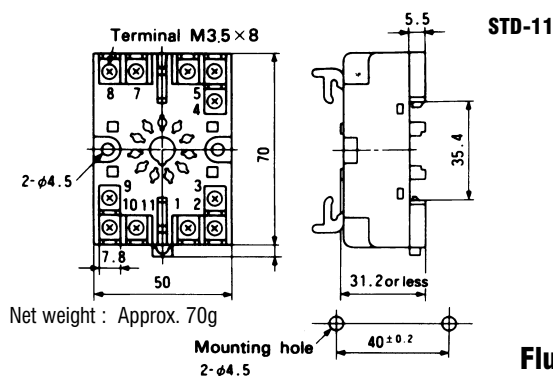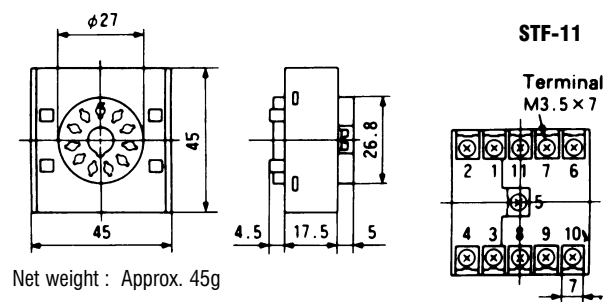
Dimensions (mm)

Net weight approx 100g
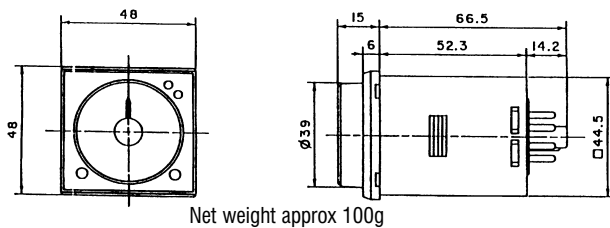
Flush mounting

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

Sockets

Surface/track mounting – screw terminal

STD-11

Net weight : Approx. 70g

Flush mounting – screw terminal

STF-11

Net weight : Approx. 45g

Flush mounting – solder terminal

ZSV11
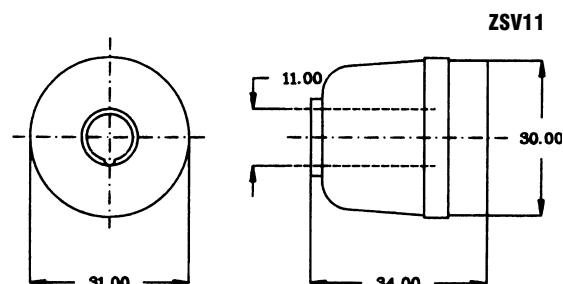
Electronic Multifunction Timer
TA11-A continued

IMO

Timer

1. On-delay PO

Signal Start

Power ON Start

T

T

T

Power 2-10
Start signal 2-6
Reset signal 2-7
Timed NC 1-4
Timed NO 1-3
LED POWER
LED OUTPUT

3. One-shot momentary actuation OS

T   T   T-a   T-a

Power 2-10
Start signal 2-6
Reset signal 2-7
Timed NC 1-4
Timed NO 1-3
LED POWER
LED OUTPUT

2. Flicker (Repeat cycle) FL

T   T   T   T   T-a

Power 2-10
Start signal 2-6
Reset signal 2-7
Timed NC 1-4
Timed NO 1-3
LED POWER
LED OUTPUT

4. Signal off-delay SF

T   T-a   T-a   T-a

Power 2-10
Start signal 2-6
Reset signal 2-7
Timed NC 1-4
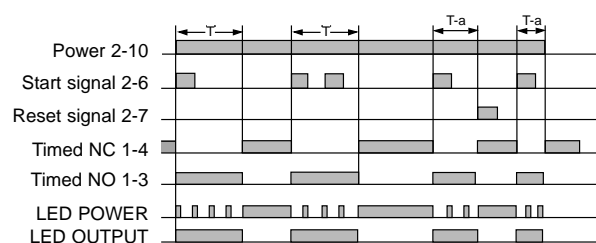Timed NO 1-3
LED POWER
LED OUTPUT

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.