

TA8 Series

Short Body Electronic Timers



TA8 On Delay Timers - Key Features

- 16 timing ranges selectable from front panel
- Timing ranges 0.05 secs to 60 hours
- 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 and DIN rail mounting



Options & Ordering Codes

TA8 - A		100-230AC	
Series		Supply Voltage	
TA8 Electronic Timer	TA8	24AC/DC	24V AC/DC
		100-230AC	100V - 240V AC
Timer Type			
On Delay DPCO Timed Contacts	A		
On Delay SPCO Timed Contacts plus Instantaneous Contacts	SA		

Technical Specification

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)

Selectable Timing Ranges TA8-A / TA8-SA

Calibrated range - selected using screw in bottom left corner of the 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 - 6.0 secs.	0.5 - 6.0 mins.	0.5 - 6.0 hrs.
0 - 12	0.1 - 1.2 secs.	1.0 - 12.0 secs.	1.0 - 12.0 mins.	1.0 - 12.0 hrs.
0 - 30	0.25 - 3.0 secs.	2.5 - 30.0 secs.	2.5 - 30.0 mins.	2.5 - 30.0 hrs.
0 - 60	0.5 - 6.0 secs.	5.0 - 60.0 secs.	5.0 - 60.0 mins.	5.0 - 60.0 hrs.

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TA8 Off Delay Timers - Key Features

- Up to 4 timing ranges selectable from TA8-DA front panel
- Up to 16 timing ranges selectable from TA8-TA front panel
- TA8-DA timing ranges 3 secs to 12 mins
- TA8-TA timing ranges from 0.05 secs to 60 hours
- Indications for time range and power on (plus output status TA8-TA only)
- DPCO output relay
- Easy-set dual concentric knob (TA8-TA only)
- 48-DIN
- Plug-in octal base
- Sockets available for panel, surface and DIN rail mounting



Options & Ordering Codes

TA8 - DA		100-230AC	
Series	TA8	Supply Voltage	24V AC/DC
TA8 Electronic Timer	TA8	24AC/DC	24V AC/DC
Timer Type	DA	100-230AC	100V - 240V AC
True Off-Delay	DA		
Multi-Range Off-Delay	TA		

Technical Specification

	TA8-DA	TA8-TA
Repeat Accuracy	±0.3% at max. setting time	
Max. Switching Frequency	1800 times/hour	
Allowable Ambient Temperature	-10°C to +55°C (Avoid ice on timer)	
Minimum Power Application Time	2	-
Mechanical Life	10 million operations or more	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	10VA at 240V AC

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)

Selectable Timing Ranges TA8-DA

Timing Ranges	Time Setting Range
0.6 mins.	0.5 to 0.6 mins.
1.2 mins.	0.1 to 1.2 mins.
6 mins.	0.5 to 6.0 mins.
12 mins.	1.0 to 12 mins.

Selectable Timing Ranges TA8-TA

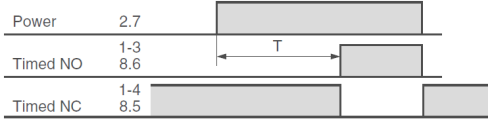
Calibrated timing range	Controlled timing range.			
	Time unit: 0.1 sec.	Time unit: sec.	Time unit: min.	Time unit: hrs
0 - 6	0.05 - 0.6 secs.	0.5 - 6.0 secs.	0.5 - 6.0 mins.	0.5 - 6.0 hrs.
0 - 12	0.1 - 1.2 secs.	1.0 - 12.0 secs.	1.0 - 12.0 mins.	1.0 - 12.0 hrs.
0 - 30	0.25 - 3.0 secs.	2.5 - 30.0 secs.	2.5 - 30.0 mins.	2.5 - 30.0 hrs.
0 - 60	0.5 - 6.0 secs.	5.0 - 60.0 secs.	5.0 - 60.0 mins.	5.0 - 60.0 hrs.

TA8 Series

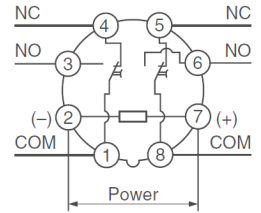
Short Body Electronic Timers

Timing & Wiring Diagrams

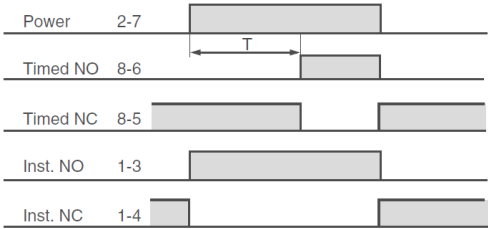
TA8-A



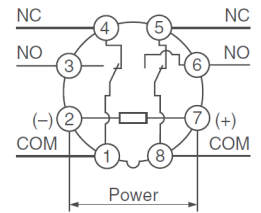
- When power is applied, the NO timed contacts make after the set time has elapsed.
- When power is removed the timer resets.



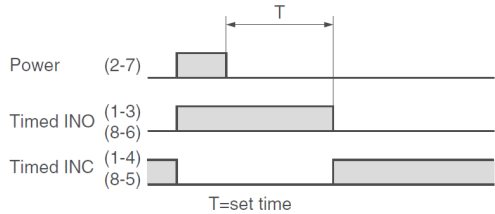
TA8-SA



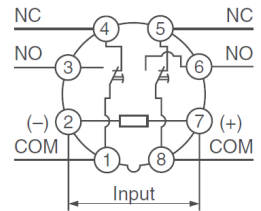
- Timed contact
When power is applied, the NO contact makes after the set time has elapsed.
When power is removed, the timer resets.
- Instantaneous contact
When power is applied, the NO contact makes instantly.
When power is removed, the timer resets.



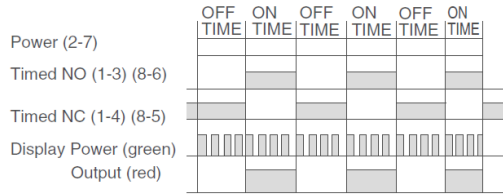
TA8-DA



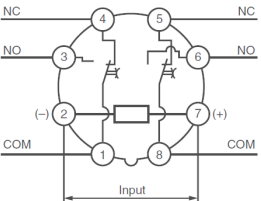
- When power (2-7) is ON, the NO timed contacts (1-3, 8-6) are instantly closed. When power is OFF, they are opened after the set time has elapsed.



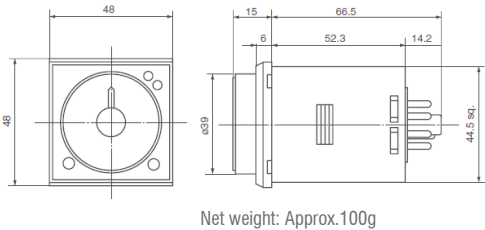
TA8-TA



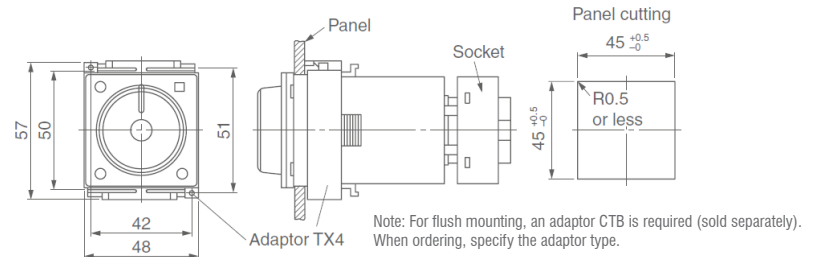
- When power (2-7) is ON, the NO (1-3, 8-6) and the NC (1-4, 8-5) timed contacts are alternately closed to repeat the ON-OFF operations.
- When power is OFF the timer resets.



Dimensions (mm)

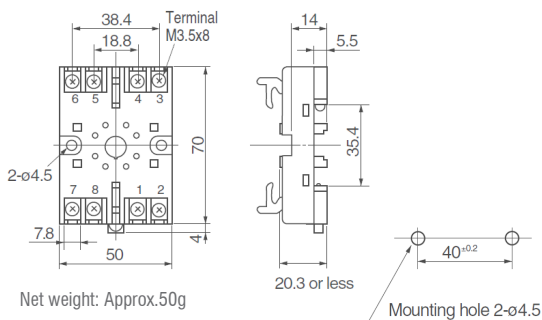


Flush Mounting

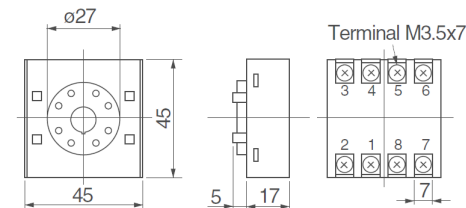


Sockets

Surface / track mounting - screw terminal (STD-8)



Flush mounting - screw terminal (STF-8)



Flush mounting - solder terminal (ZSV8)

