



Solid-State Timer

H3G

Low-Cost, Plug-In Timer with Large Switching Capacity

- Up to 7-amp switching capacity
- Choose SPDT or DPDT contact form
- 12 time ranges
- Fits standard 8-pin sockets
- Ideal replacement for time relays
- Subminiature DIN size, 36 x 36 mm
- LED power-ON indicator
- Timer hold-down clips supplied
- Panel mounting adapter, sockets, and accessories may be ordered separately



Ordering Information

■ TIMERS

Add the supply voltage and time range code to the part number when you order. For example, **H3G-8A AC100/110/120-60s**.

Timing function		ON-delay	
Contact type	Time limit	SPDT	DPDT
	Instantaneous	-	-
Terminal form		8-pin round socket	
Part number		H3G-8A	H3G-8C
Supply voltages	AC	24 V, 100/110/120 V or 200/220/240 V; 50/60 Hz	
	DC	12 V or 24 V	
Time range codes		1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 m, 5 m, 10 m, 30 m, 60 m, or 3 h	

■ TIME RANGES

Code	Range	Code	Range	Code	Range
1s	0.1 to 1 second	30 s	3 to 30 seconds	10m	1 to 10 minutes
3 s	0.3 to 3 seconds	60 s	6 to 60 seconds	30 m	3 to 30 minutes
5 s	0.5 to 5 seconds	3 m	0.3 to 3 minutes	60 m	6 to 60 minutes
10 s	1 to 10 seconds	5 m	0.5 to 5 minutes	3 h	0.3 to 3 hours

■ ACCESSORIES

Description	Part number	
Sockets	Bottom surface or track mounting, top screw terminals, molded standoff ring	PF083A-E
	Bottom surface or track mounting, top screw terminals	PF085A
	Back mounting, for use with Y92F-31 mounting adapter, bottom screw terminals	P3G-08
Panel mounting adapter	Fits behind panel. Use P3G-08 socket.	Y92F-31
Mounting track	DIN rail, 50 cm (1.64 ft) length	PFP-50N
	DIN rail, 1 m (3.28 ft) length	PFP-100N
	End plate	PFP-M
	Spacer	PFP-S

■ REPLACEMENT PARTS

Description	Part number
Timer hold-down clips, one pair	Y92H-6

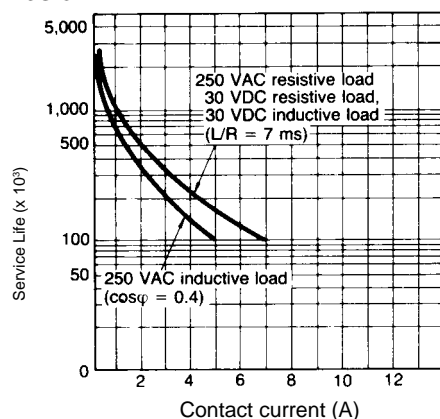
Specifications

Part number		H3G-8A	H3G-8C
Supply voltage	AC	24 V, 100/110/120 V or 200/220/240 V; 50/60 Hz	
	DC	12 V or 24 V	
Operating voltage		85 to 110% of rated voltage	
Power consumption	AC	3.4 VA at 200 VAC	
	DC	-	
Timing functions		ON-delay	
Control inputs		-	-
Control output	Type	SPDT	DPDT
	Time limit	Instantaneous	-
	Max. load	7 A, 125/250 VAC (resistive lead)	5 A, 125/250 VAC (resistive lead)
	Min. load	100 mA, 5 VDC	100 mA, 5 VDC
Repeat accuracy		± 2% max.	
Setting error		± 10% max.	
Resetting system		Power-off	
Resetting time		100 ms	
Indicators		Power ON (red LED)	
Materials		Plastic case, knob	
Mounting		Panel, track or surface	
Connections		8-pin round socket	
Weight		55 g (2.0 oz.)	
Approvals		UL/CSA	
Operating ambient temperature		-10° to 55°C (14° to 131°F)	
Humidity		35 to 85% RH	
Vibration	Mechanical durability	10 to 55 Hz; 0.75 mm (0.03 in) double amplitude	
	Malfunction durability	10 to 55 Hz; 0.5 mm (0.02 in) double amplitude	
Shock	Mechanical durability	100 G	
	Malfunction durability	10 G	
Variation due to voltage change		± 2% max.	
Variation due to temperature change		± 5% max.	
Insulation resistance		100 MΩ min. at 500 VDC	
Dielectric strength		2,000 VAC, 50/60 Hz for 1 minute between current-carrying and non-current-carrying parts, and between contact carrying and control circuit and between contacts of different poles. 1,000 VAC, 50/60 Hz for 1 minute between non-continuous contacts	
Service life	Mechanical	10 million operations min.	
	Electrical	100,000 operations min. at maximum ratings	

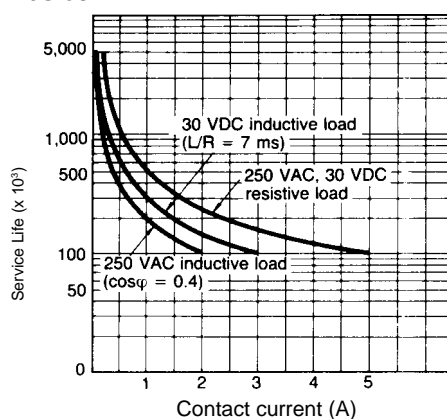
Engineering Data

■ ELECTRICAL SERVICE LIFE

H3G-8A



H3G-8C

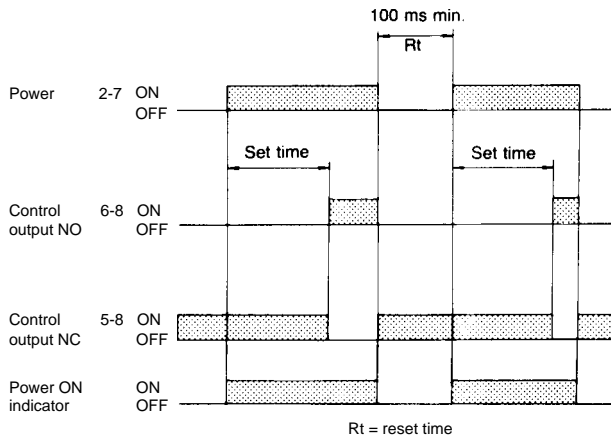
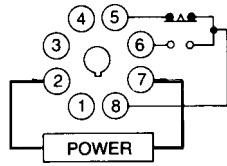


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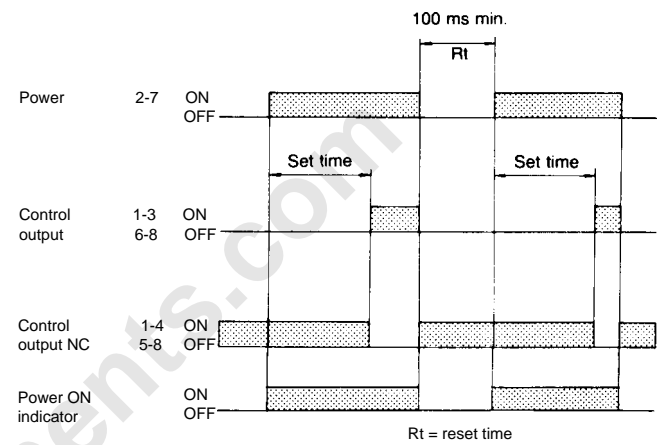
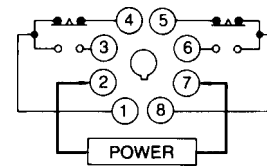
Timing Charts

In the schematic diagrams, each **thick line** indicates the external wiring.

H3G-8A



H3G-8C

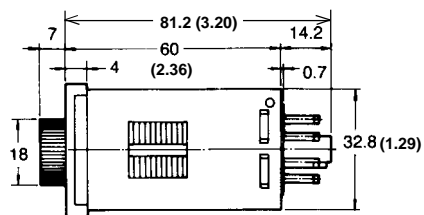
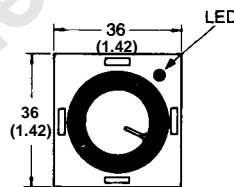
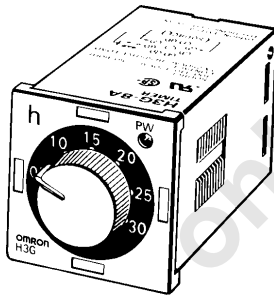


Dimensions

Unit: mm (inch)

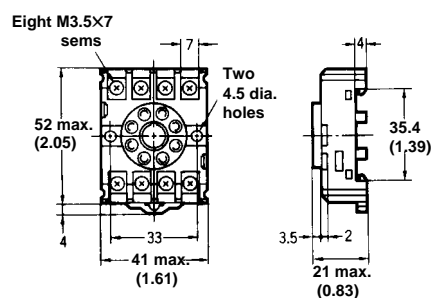
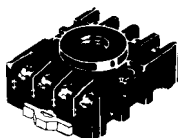
TIMERS

H3G-8A, H3G-8C

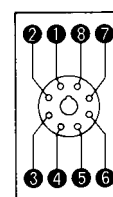


SOCKETS

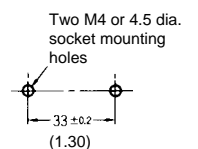
PF083A-E Bottom Surface or Track Mounting Socket with Molded Standoff Ring



Terminal arrangement

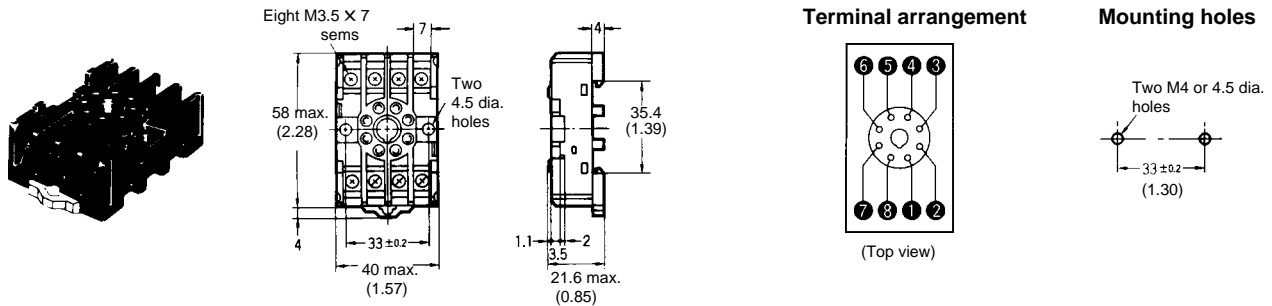


Mounting holes

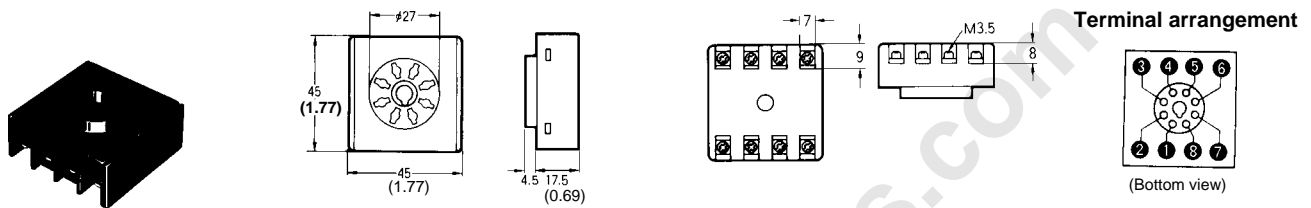


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PF085A Bottom Surface on Track Mounting Socket



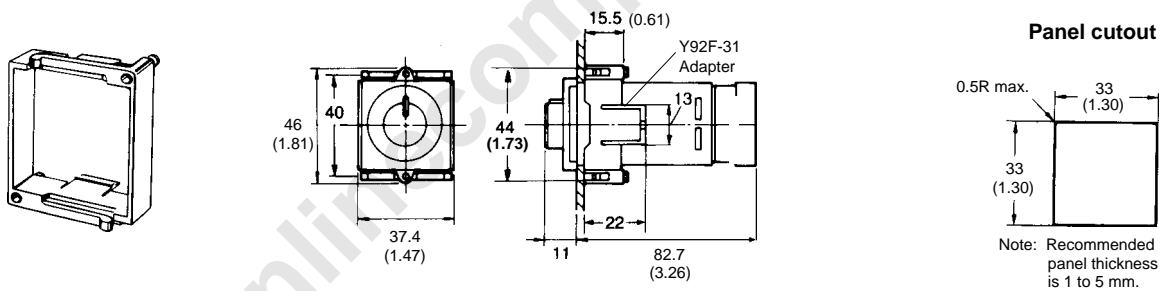
P3G-08 Back Mounting Socket



■ **PANEL MOUNTING ADAPTER**

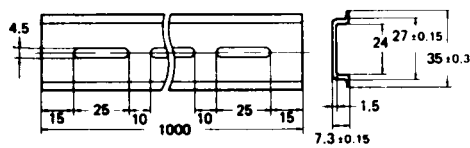
Y92F-31 Mounting Adapter

Adapter installs behind the panel. It is ideal for side by side installation. Use P3G-08 socket.

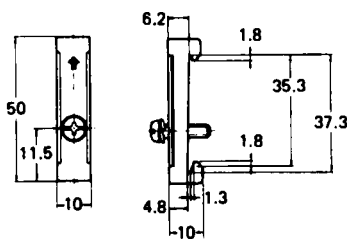


■ **MOUNTING TRACK AND ACCESSORIES**

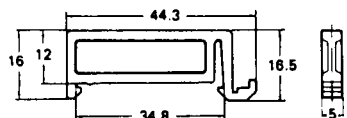
PFP-100N/PFP-50N DIN Rail Track



PFP-M End Plate



PFP-S Spacer

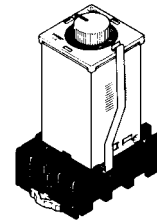
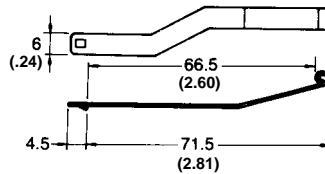


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■ REPLACEMENT PARTS

Y92H-6 Hold-Down Clips

One pair of clips are packed with the H3G timer.



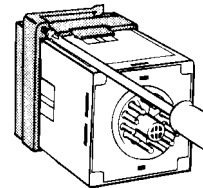
Connections

Part number	Power supply terminal numbers		Output terminal numbers		
	AC (common), DC-	AC (hot), DC+	COM	NC	NO
H3G-8A	2	7	8	5	6
H3G-8C	2	7	1	4	3

Mounting

■ PANEL MOUNTING

Insert the timer through the panel cutout. Push the Y92F-31 adapter from the rear of the timer as far forward toward the panel as possible.



Using Y92F-31 Adapter

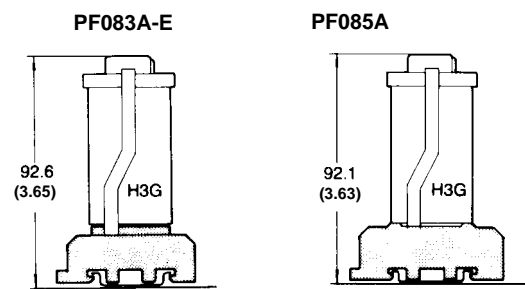
Push the P3G-08 onto the rear of the timer, then wire the socket. Tighten the two retaining screws on the adapter. To release the adapter, lift the tab at the rear of the adapter.

■ TRACK MOUNTING

PF083A-E and PF085A

Mounting

Insert the timer into the socket then clip the rear of the socket onto the track. Push the bottom onto the track until the latch fastens securely.



Removal

Pull the latch on the socket with a flat-blade screwdriver and remove the timer and socket as one unit.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS. To convert millimeters into inches divide by 25.4.



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