

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
- Subminature DIN size, 36 x 36 mm
- LED power-ON indicator
- Timer hold-down clips supplied
- Panel mounting adapter, sockets, and accessories may be ordered seperately





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 On-delay		
Contact type	Time limit	SPDT	DPDT	
	Instanttaneous	_	_	
Terminal form		8-pin round socket		
Part number		H3G-8A	H3G-8C	
Supply	AC	24 V,100/110/120 V or 200/220/240 V; 50/60 Hz		
voltages	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

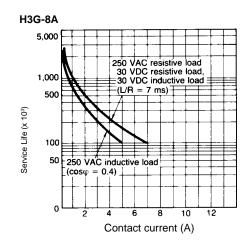
Description		
Timer hold-down clips, one pair		

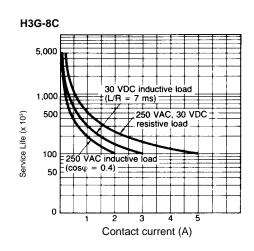
Specifications_

Part number			H3G-8A	H3G-8C			
Supply AC		AC	24 V, 100/110/120 V or 200/220/240 V; 50/60 Hz				
voltage DC		DC	12 V or 24 V				
Operating voltage)	85 to 110% of rated voltage				
Power AC		AC	3.4 VA at 200 VAC				
consump	tion	DC	=				
Timing fu	Timing functions		ON-delay ON-delay				
Control inputs							
Control	Туре	Time limit	SPDT DPDT				
output		Instantaneous	_	_			
	Max. lo	ad	7 A, 125/250 VAC (resistive lead)	5 A, 125/250 VAC (resistive lead)			
	Min. loa	ad	100 mA, 5 VDC	100 mA, 5 VDC			
Repeat a	ccuracy		± 2% max.				
Setting er	ror		± 10% max.				
Resetting	system		Power-off				
Resetting	Resetting time		100 ms				
Indicators	3		Power ON (red LED)				
Materials	Materials		Plastic case, knob				
Mounting			Panel, track or surface				
Connection	ons		8-pin round socket				
Weight			55 g (2.0 oz.)				
Approvals	3		UL/CSA				
Operating	g ambier	nt temperature	-10° to 55°C (14° to 131°F)				
Humidity			35 to 85% RH				
Vibration	Mecha	nical durability	10 to 55 Hz; 0.75 mm (0.03 in) double amplitude				
	Malfun	ction durability	10 to 55 Hz; 0.5 mm (0.02 in) double amplitude				
Shock	Mecha	nical durability	100 G				
	Malfunction durability		10 G				
Variation due to voltage change		oltage change	± 2% max.				
Variation due to temperature change		emperature change	± 5% max.				
Insulation resistance		nce	100 MΩ min. at 500 VDC				
Dielectric strength		1	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-continuos contacts				
Service li	fe	Mechanical	10 million operations min.				
JCI VICE II		Electrical	100,000 operations min. at maximum ratings				
Electrical			100,000 operations min. at maximum ratings				

Engineering Data

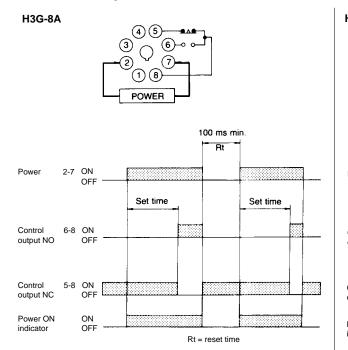
■ ELECTRICAL SERVICE LIFE

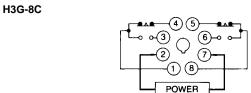




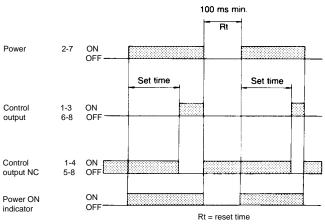
Timing Charts _____

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





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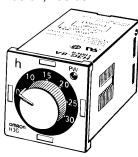


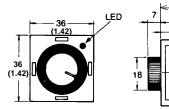
Dimensions _____

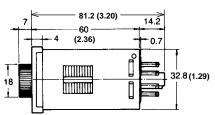
Unit: mm (inch)

■ TIMERS

H3G-8A, H3G-8C



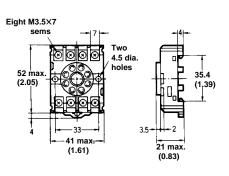


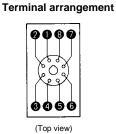


■ SOCKETS

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





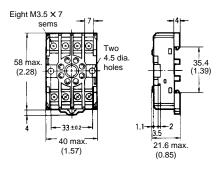


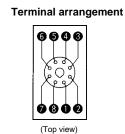
Two M4 or 4.5 dia. socket mounting holes 33 ±0.2 (1.30)

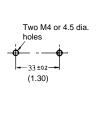
Mounting holes

PF085A Bottom Surface on Track Mounting Socket





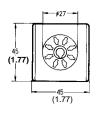


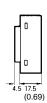


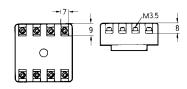
Mounting holes

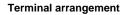
P3G-08 Back Mounting Socket











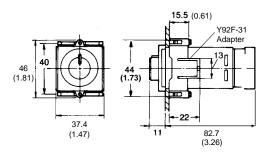


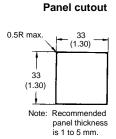
■ PANEL MOUNTING ADAPTER

Y92F-31 Mounting Adapter

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



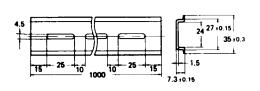


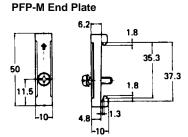


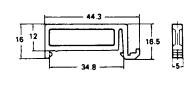
PFP-S Spacer

■ MOUNTING TRACK AND ACCESSORIES

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



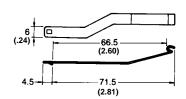




■ REPLACEMENT PARTS

Y92H-6 Hold-Down Clips

One pair of clips are packed with the H3G timer.





Connections

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

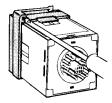
Mounting

■ 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

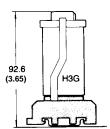
Mounting

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.

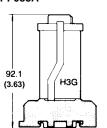
Removal

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

PF083A-E



PF085A



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

OMRON

OMRON ELECTRONICS, INC.

One East Commerce Drive Schaumburg, IL 60173

1-800-55-OMRON

885 Milner Avenue

885 Milner Avenue Scarborough, Ontario M1B 5V8

OMRON CANADA, INC.

416-286-6465

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Specifications subject to change without notice.

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