OMRON

Solid-state Timer
H3JA

Economical, Compact, Plug-in Timer

- Time limit, ON-delay, operation with automatic resetting.
- DIN size (36 x 36 mm), fits standard 8-pin sockets.
- Wide choice of supply voltages:
  24, 100 to 120, 200 to 240 VAC, 12, 24 VDC.
- Dual LED indication for power and output status.
- Large transparent setting knob.
- Setting error rating almost matches that of a 48 x 48 timer.
- Conforms to UL and CSA, and meets CE marking requirements.



Ordering Information

Stock Note: Shaded models are normally stocked.

Operation/resetting system	Time-limit contact	Mounting method	Rated time	Model
Time-limit operation/ self-resetting	SPDT	Surface mounting, flush mounting, and DIN track mounting	1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 min, 5 min, 10 min, 30 min, 60 min, 3 hrs	**H3JA-8A**
	DPDT		1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 min, 5 min, 10 min, 30 min, 60 min, 3 hrs	**H3JA-8C**

Note: Specify the model number, supply voltage, and rated time when ordering.

Ex. H3JA-8A 100 to 120 VAC 1 s
- 1 s — Rated time
- 100 to 120 VAC — Supply voltage

■ Accessories (Order Separately)

Stock Note: Shaded models are normally stocked.

Name/specifications		Model
Flush mounting adapter		**Y92F-31**
Mounting track	50 cm (ℓ) x 7.3 mm (t)	**PFP-50N**
	1 m (ℓ) x 7.3 mm (t)	**PFP-100N**
	1 m (ℓ) x 16 mm (t)	**PFP-100N2**
End plate		**PFP-M**
Spacer		**PFP-S**
Track mounting/ Front connecting socket	8-pin	**PF085A**
Back connecting socket	8-pin	**P3G-08**
	8-pin, finger safe type	**P3G-08 with Y92A-48G (see note 1)**
Hold-down clip (see note 2)	For PF085A Socket	**Y92H-6**

Note: 1. Y92A-48G is a finger safe terminal cover which is attached to the P3G-08 Socket.

2. Hold-down Clips are sold in sets of two.

Specifications

■ Time Ranges

Rated time	Time range	Rated time	Time range
1 s	0.1 to 1 s	3 min	0.3 to 3 min
3 s	0.3 to 3 s	5 min	0.5 to 5 min
5 s	0.5 to 5 s	10 min	1 to 10 min
10 s	1 to 10 s	30 min	3 to 30 min
30 s	3 to 30 s	60 min	6 to 60 min
60 s	6 to 60 s	3 hrs	0.3 to 3 hrs

■ Ratings

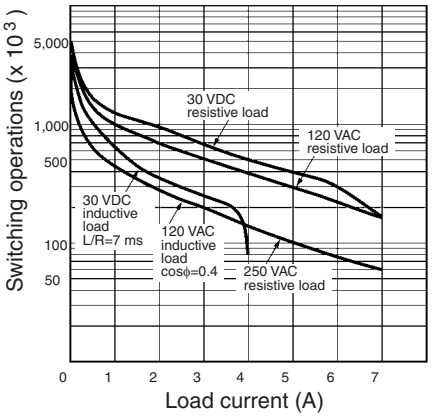
Rated supply voltage	24, 100 to 120 or 200 to 240 VAC (50/60 Hz); 24 VDC; 12 VDC (only available on H3JA-8A model)
Operating voltage range	85% to 110% of rated supply voltage
Power consumption	H3JA-8A 100 to 120 VAC: Approx. 3 VA (1.3 W) at 120 VAC 200 to 240 VAC: Approx. 5 VA (1.5 W) at 240 VAC 24 VAC: Approx. 1.2 VA (0.9 W) at 24 VAC 24 VDC: Approx. 0.8 W at 24 VDC H3JA-8C 100 to 120 VAC: Approx. 3 VA (1.1 W) at 120 VAC 200 to 240 VAC: Approx. 5 VA (1.3 W) at 240 VAC 24 VAC: Approx. 1.3 VA (1 W) at 24 VAC 24 VDC: Approx. 0.9 W at 24 VDC
Control outputs	H3JA-8A: 7 A at 250 VAC, resistive load H3JA-8C: 5 A at 250 VAC, resistive load

■ Characteristics

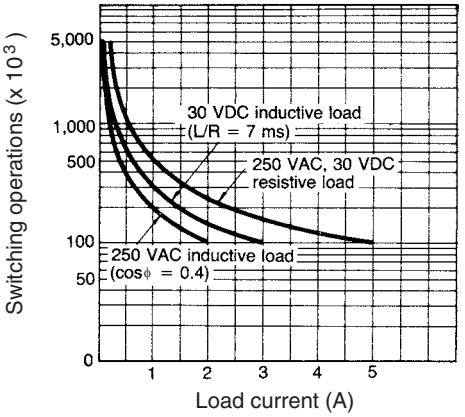
Accuracy of operating time	±2% max.
Setting error	±7% max.
Influence of voltage	±2% max.
Influence of temperature	±5% max.
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)
Impulse withstand voltage	3 kV (between power terminals) 4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)
Noise immunity	±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)
Static immunity	Destruction: 8 kV Malfunction: 6 kV
Vibration resistance	Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each. Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.
Shock resistance	Destruction: 1,000 m/s^2 Malfunction: 100 m/s^2
Ambient temperature	Operating: –10°C to 55°C Storage: –25°C to 65°C
Ambient humidity	Operating: 35% to 85%
Life expectancy	H3JA-8A Mechanical: 10,000,000 operations min. Electrical: 60,000 operations min. (7 A resistive load at 250 VAC, 360 operations/h) H3JA-8C Mechanical: 10,000,000 operations min. Electrical: 100,000 operations min. (5 A resistive load at 250 VAC, 360 operations/h)
EMC	(EMI) Emission Enclosure: EN55011 Group 1 class A Emission AC Mains: EN55011 Group 1 class A (EMS) Immunity ESD: EN61000-4-2: 6 kV contact discharge (level 3) 8 kV air discharge (level 3) Immunity RF-interference from AM Radio Waves: EN61000-4-3: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Burst: EN61000-4-4: 2 kV power port and output port (level 3) 1 kV control port with capacitive clamp (level 3) Immunity Surge: EN61000-4-5: 2 kV common mode (level 3) 1 kV differential mode (level 3)
Approved standard	UL508, CSA C22.2 No. 14, conforms to EN61812-1
Case color	Light gray (Munsell 5Y7/1)
Degree of protection	IP40 (panel surface)
Weight	H3JA-8A: Approx. 50 g H3JA-8C: Approx. 60 g

Engineering Data

■ H3JA-8A



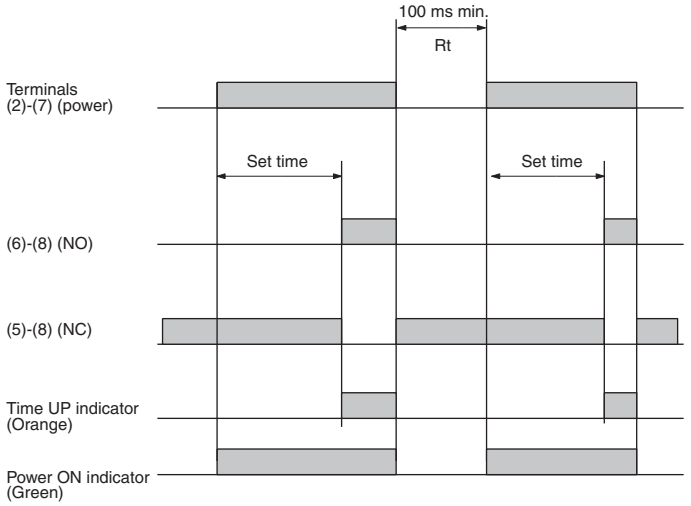
■ H3JA-8C



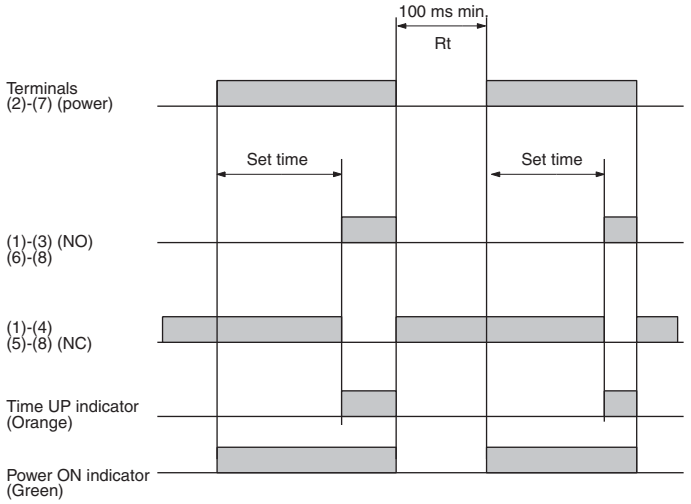
Operation

■ Timing Chart

H3JA-8A

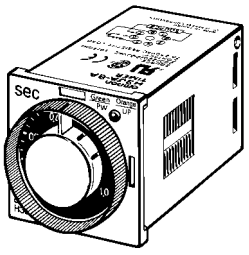


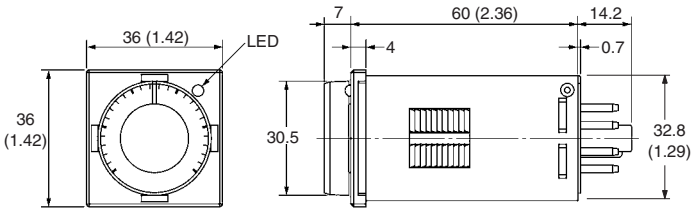
H3JA-8C



Dimensions

Unit: mm (inch)



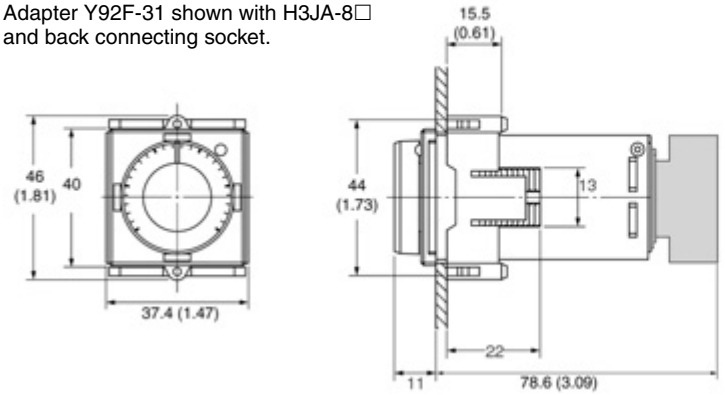


■ Accessories (Order Separately

Flush Mounting Adapter

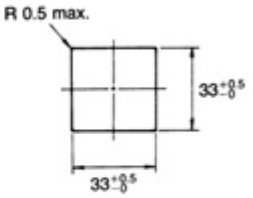
Y92F-31

Adapter Y92F-31 shown with H3JA-8□ and back connecting socket.



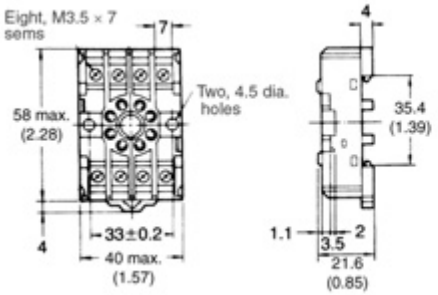
Panel Cutout

Recommended panel thickness: 1 to 5 mm

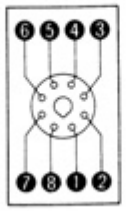


Track Mounting/Front Connecting Socket

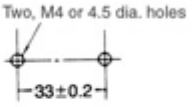
PF085A



Terminal Arrangement (Top View)

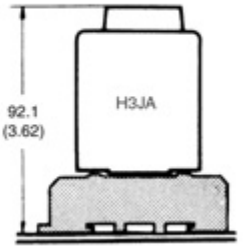


Mounting Holes



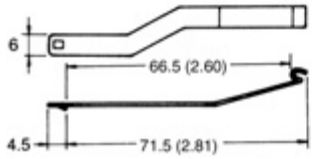
Note: PF085A can be used as a front connecting socket.

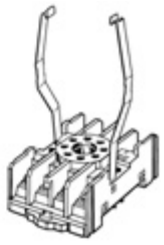
Mounting Height of Timer with Socket



Hold-down Clips (Set of Two Clips)

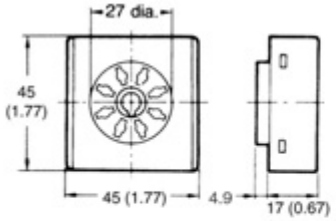
Y92H-6 for PF085A



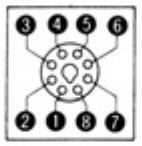


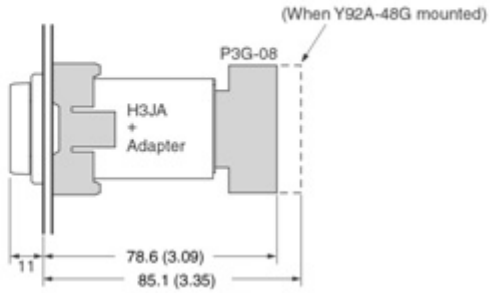
Back Connecting Socket

P3G-08



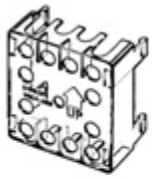
Terminal Arrangement (Bottom View)

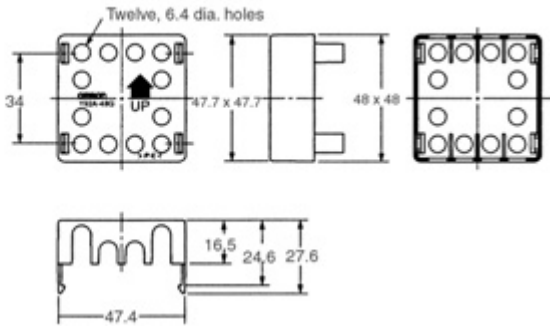




Finger Safe Terminal Cover Conforming to VDe0106/P100

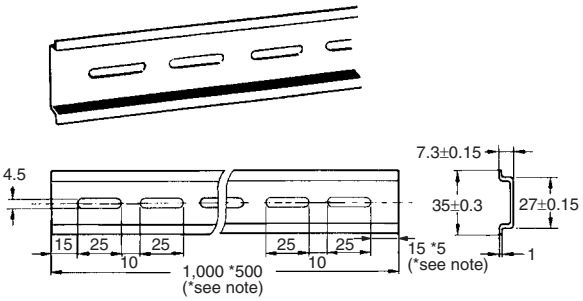
Y92A-48G
(Attachments for P3G-08 Socket)



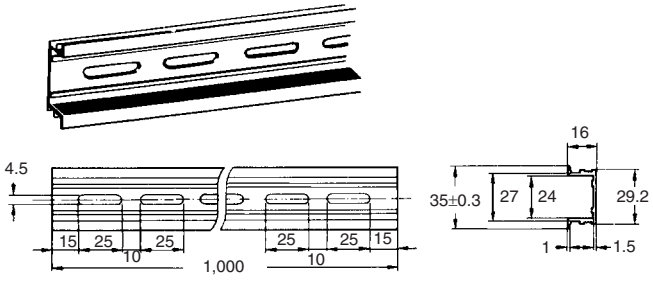


Mounting Track

PFP-100N, PFP-50N



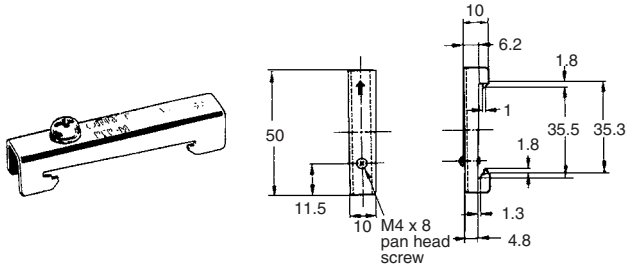
PFP-100N, PFP-50N



Note: The values shown with an asterisk are for the PFP-50N.

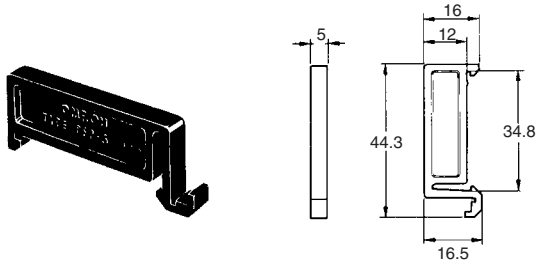
End Plate

PFP-M



Spacer

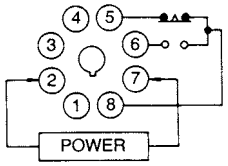
PFP-S



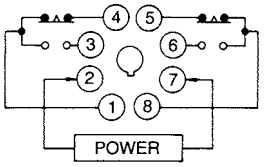
Installation

■ Terminal Arrangement

H3JA-8A



H3JA-8C



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3. Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Seller's payment terms and (ii) Buyer has no past due amounts owing to Seller.
4. Orders. Seller will accept no order less than $200 net billing.
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9. Force Majeure. Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
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    b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
    c. All sales and shipments of Goods shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Goods shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Goods until the full purchase price is paid by Buyer;
    d. Delivery and shipping dates are estimates only.
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11. Claims. Any claim by Buyer against Seller for shortage or damage to the Goods occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Goods from Seller in the condition claimed.
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    NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE SELLER'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
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OMRON

OMRON ELECTRONICS LLC
One Commerce Drive
Schaumburg, IL 60173
847-843-7900
For US technical support or other inquiries:
800-556-6766

OMRON CANADA, INC.
885 Milner Avenue
Toronto, Ontario M1B 5V8
416-286-6465

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