

## Solid-State Digital Timer

## H3CA

1/16 DIN, Digital-Set Timer with  
0.1 Second to 9,990 Hours Range

- 8 field-selectable operation modes
- Universal AC/DC supply voltage timers available
- Operations include ON-delay, Repeat cycle, Signal Interval/OFF-delay, Signal-OFF delay (I and II), Interval, Cycle and Signal ON-delay/OFF-delay
- Selectable no-voltage start, reset, gate and check inputs expand capabilities
- Time remaining LCD bar graph and LCD output status indicator
- Panel mounting adapters, sockets, and accessories may be ordered separately



## Ordering Information

### ■ TIMERS

Add the supply voltage to the part number when you order ON-delay only timers H3CA-8 and H3CA-8H. For example, **H3CA-8H-AC/100/110/120**.

|                 |               |                              |                               |   |               |
|-----------------|---------------|------------------------------|-------------------------------|---|---------------|
| Timing function |               | 8 field-selectable functions |                               | ON-delay only   |               |
| Contact type    | Time limit    | SPDT                         | SPDT                          | SPDT  | DPDT          |
|                 | Instantaneous | –                            | –                             | SPDT  | –             |
| Terminal form   |               | 11-pin round socket          | Front mounted screw terminals | 8-pin round socket                                      |               |
| Part number     |               | <b>H3CA-A</b>                | <b>H3CA-FA</b>                | <b>H3CA-8H</b>  | <b>H3CA-8</b> |
| Supply voltages | AC            | 24 to 240 V, 50/60 Hz or     |                               | Specify 24 V, 100/110/120 V, or 200/220/240 V; 50/60 Hz |               |
|                 | DC            | 12 to 240 V                  |                               | Specify 12 V, 24 V, 48 V or 110 V                       |               |

### ■ ACCESSORIES

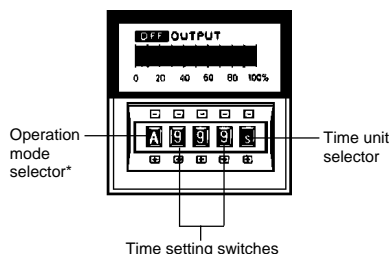
| Description            |   |  | Part number      |
|------------------------|---|--|------------------|
| Sockets                | 11-pin  | Bottom surface or track mounting, top screw terminals  | <b>P2CF-11</b>   |
|                        |   | Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100 | <b>P2CF-11-E</b> |
|                        |   | Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals                         | <b>P3GA-11</b>   |
|                        | 8-pin   | Bottom surface or track mounting, top screw terminals  | <b>P2CF-08</b>   |
|                        |   | Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100 | <b>P2CF-08-E</b> |
|                        |   | Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals                         | <b>P3G-08</b>    |
|                        |   | Terminal cover for P3G sockets, conforms to VDE0106/P100   | <b>Y92A-48G</b>  |
| Panel mounting adapter | Fits behind panel, ideal for side by side installation. Use P3G□-□ sockets. |  | <b>Y92F-30</b>   |
|                        | Flush mounting adapter (88 mm x 58 mm x 63.7 mm)                            |  | <b>Y92F-70</b>   |
|                        | Flush mounting adapter (58 mm x 50 mm x 63.7 mm)                            |  | <b>Y92F-71</b>   |

Accessories table continued on the next page.

**ACCESSORIES, continued**

| Description          |   | Part number      |
|----------------------|---|------------------|
| Protective cover     | Hard plastic cover protects against dust, dirt and water; not for use with panel covers | <b>Y92A-48B</b>  |
|                      | Soft plastic cover protects against dust, dirt and water; not for use with panel covers | <b>Y92A-48D</b>  |
| NEMA 4 cover         | Waterproof front cover  | <b>Y92A-48N</b>  |
| Colored panel covers | Light gray (Munsell No. 5Y7/1) to match case  | <b>Y92P-48GL</b> |
|                      | Medium gray (Munsell No. 5Y5/1)   | <b>Y92P-48GM</b> |
|                      | Black (Munsell No. N1.5)  | <b>Y92P-48GB</b> |
| Mounting track       | DIN rail, 50 cm (1.64 ft) length; 7.3 mm thick  | <b>PFP-50N</b>   |
|                      | DIN rail, 1 m (3.28 ft) length; 7.3 mm thick  | <b>PFP-100N</b>  |
|                      | DIN rail, 1 m (3.28 ft) length; 16 mm thick   | <b>PFP-100N2</b> |
| End plate            |   | <b>PFP-M</b>     |
| Spacer               |   | <b>PFP-S</b>     |

**■ RANGE AND OPERATION MODE SELECTION**



| Time unit | Timing range        |
|-----------|---------------------|
| 0.1 s     | 0.1 to 99.9 seconds |
| s         | 1 to 999 seconds    |
| 0.1 m     | 0.1 to 99.9 minutes |
| m         | 1 to 999 minutes    |
| 0.1 h     | 0.1 to 99.9 hours   |
| h         | 1 to 999 hours      |
| 10 h      | 10 to 9990 hours    |

| Mode | Operation                 |
|------|---------------------------|
| A    | ON-delay                  |
| B    | Repeat cycle              |
| C    | Signal Interval/OFF-delay |
| D    | Signal OFF-delay I        |
| E    | Interval                  |
| F    | Cycle                     |
| G    | Signal ON-delay/OFF-delay |
| H    | Signal OFF-delay II       |

Note: \*Operation mode selector not included with ON-delay only models.

**Specifications**

| Part number               |            | H3CA-A  | H3CA-FA         | H3CA-8H  | H3CA-8 |
|---------------------------|------------|---|-----------------|--|--------|
| Supply voltage            | AC         | 24 to 240 V, 50/60 Hz   |                 | 24 V, 100/110/120 V, 200/220/240 V; 50/60 Hz   |        |
|                           | DC         | 12 to 240 V   |                 | 12 V, 24 V, 48 V, 110 V, (permissible ripple factor: 20% max. using single-phase, full-wave rectified power sources) |        |
| Operating voltage         |            | 90 to 110% of rated voltage   |                 |  |        |
| Power consumption         | AC         | 4 VA  |                 | 10 VA  |        |
|                           | DC         | 2 W   |                 | 2W   |        |
| Timing functions          |            | 8 field-selectable modes: ON-delay, Repeat cycle, Signal Interval/OFF-delay, Signal ON/OFF-delay, Signal OFF-delay (I and II), Interval and Cycle |                 | ON-delay only  |        |
| Start, reset, gate inputs |            | No voltage  | No voltage      | –  | –      |
| Control output            | Type       | SPDT  |                 | SPDT   | DPDT   |
|                           | Time limit | Instantaneous   |                 | SPDT   | –      |
|                           | Max. load  | 3 A, 250 VAC (p.f. = 1)   |                 |  |        |
|                           | Min. load  | 10 mA, 5 VDC  |                 |  |        |
| Repeat accuracy           |            | ±0.3%, ±0.05 sec (includes variation due to voltage and temperature changes)  |                 |  |        |
| Setting error             |            | ±0.5%, ±0.05 sec  |                 |  |        |
| Resetting system          |            | Power-OFF, external and self-reset  |                 | Power-OFF  |        |
| Resetting time            |            | 0.5 sec max.  |                 | 0.1 sec max.   |        |
| Indicators                |            | Time Remaining (LCD bar graph), Output Status (LCD message)   |                 |  |        |
| Materials                 |            | Plastic case  |                 |  |        |
| Mounting                  |            | Panel, track, surface   |                 |  |        |
| Connections               |            | 11-pin round socket   | Terminal screws | 8-pin round socket   |        |

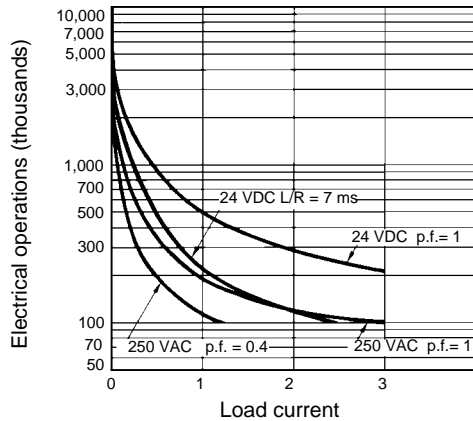
Specification table continued on the next page.

**SPECIFICATIONS, continued**

|                                     |  |   |                |        |
|-------------------------------------|--|---|----------------|--------|
| Part number                         | H3CA-A   | H3CA-FA   | H3CA-8H        | H3CA-8 |
| Weight                              | 110 g (3.9 oz)   | 190 g (6.7 oz)  | 110 g (3.9 oz) |        |
| Approvals                           | UL/CSA/SEV   |   |                |        |
| 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                         |                |        |
|                                     | Malfuction durability  | 10 to 55 Hz; 0.5 mm (0.02 in) double amplitude                          |                |        |
| Shock                               | Mechanical durability  | 20 G  |                |        |
|                                     | Malfuction durability  | 10 G  |                |        |
| Variation due to voltage change     | See "Repeat Accuracy"  |   |                |        |
| Variation due to temperature change | See "Repeat Accuracy"  |   |                |        |
| 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 and control circuit<br>1,000 VAC, 50/60 Hz for 1 minute between non-continuous contacts |   |                |        |
| Service life                        | Mechanical   | 10 million operations minimum (under no load, at 1,800 operations/hour) |                |        |
|                                     | Electrical   | 100,000 operations minimum at maximum ratings                           |                |        |

**Engineering Data**

■ **ELECTRICAL SERVICE LIFE**



# Timing Charts

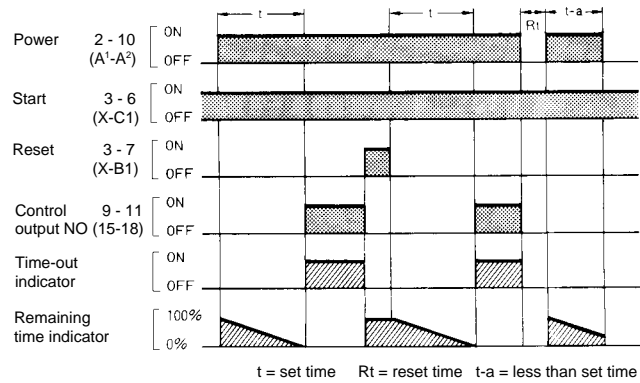
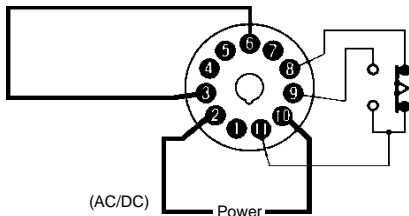
In the schematic diagrams, each **thick line** indicates the external wiring necessary for the selected operation.

## ■ H3CA-A, H3CA-FA

### Mode A ON-Delay

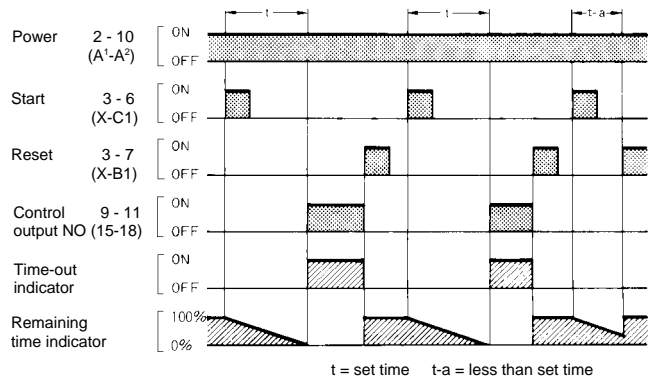
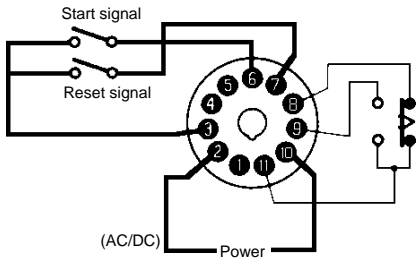
#### Power-ON Start/Power-OFF Reset

The start terminals are connected. Timing starts when power is applied. The output is energized when the accumulated time equals the set time. The output remains energized until power is disconnected or a reset input is applied.



#### Signal Start

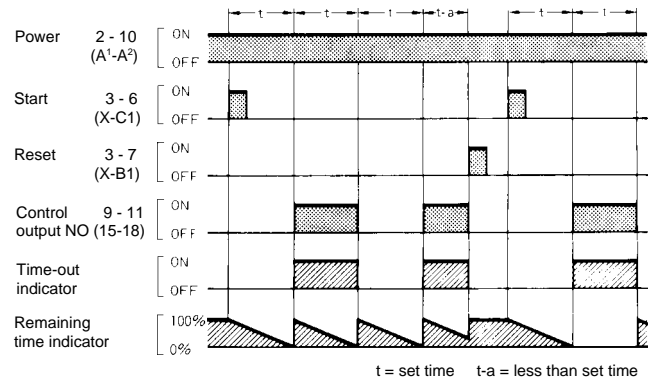
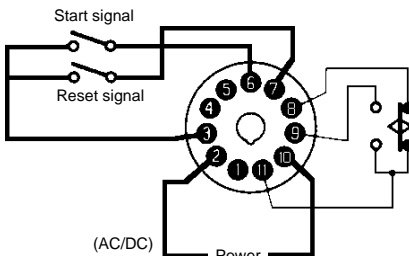
Power is applied continuously. Timing starts at the leading edge of the start input. The output is energized when the accumulated time equals the set time. Subsequent start signals during or after timing will not be accepted. The output relay will remain energized until a reset input is applied or power is interrupted.



### Mode B Repeat Cycle

#### Signal Start

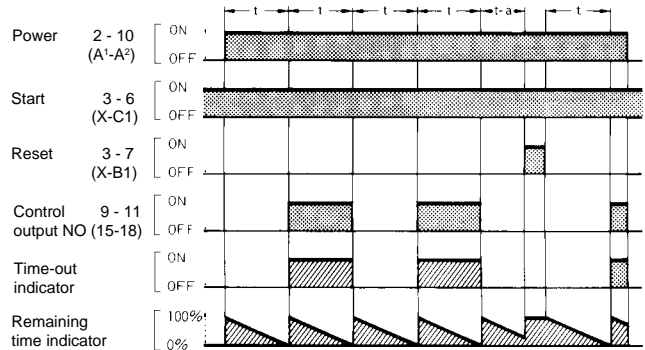
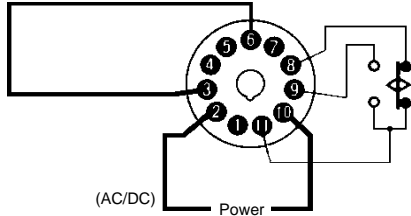
Power is continuously applied. The OFF/ON cycle is initiated at the leading edge of the start input. The output relay will be OFF for the set time and then ON for the set time. This cycle will be repeated until a reset input is applied or power is disconnected.



In the schematic diagrams, each **thick line** indicates the external wiring necessary for the selected operation.

**Power-ON Start/Power-OFF Reset**

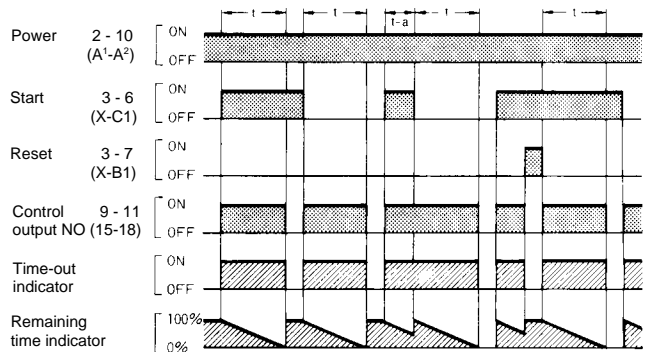
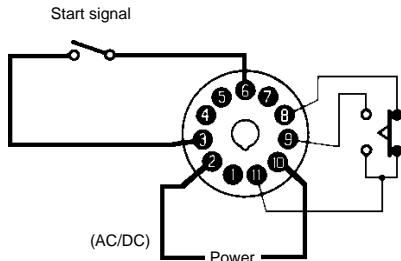
The start terminals are connected. Timing starts when power is applied. The output relay will be OFF for the set time and then ON for the set time. This cycle will be repeated until a reset input is applied or power is disconnected.



t = set time t-a = less than set time

**Mode C Signal ON/OFF-Delay**

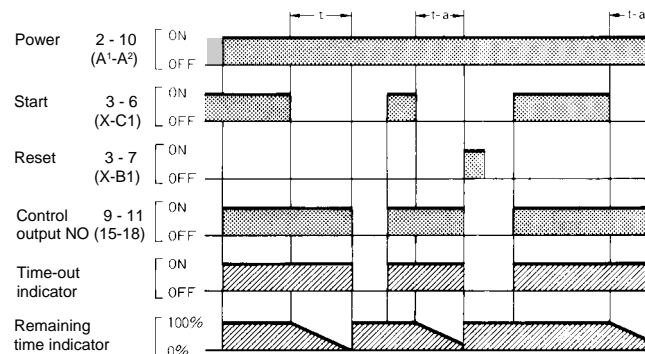
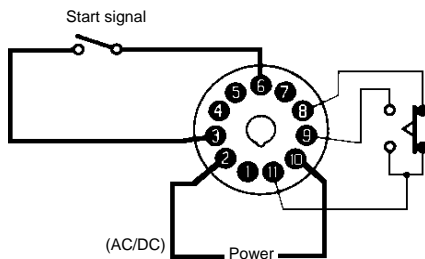
Power is continuously applied. Timing begins on both the leading and trailing edges of the start input. The output relay is energized during timing. Once the timer has timed out from the trailing edge, it resets and is ready for subsequent start inputs.



t = set time t-a = less than set time

**Mode D Signal OFF-Delay (I)**

Power is continuously applied. The output relay is energized at the leading edge of the start input. Timing starts at the trailing edge of the start input. The output relay is de-energized when the accumulated time equals the set time.



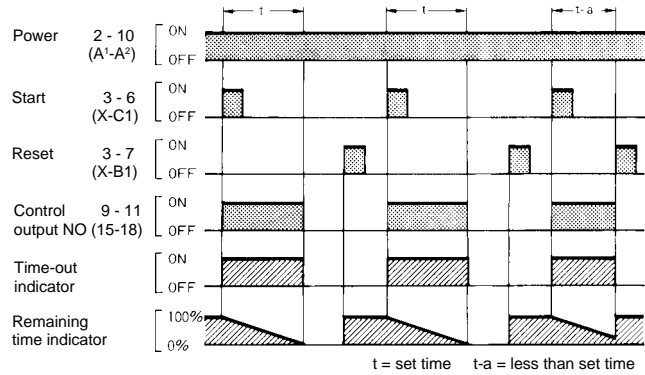
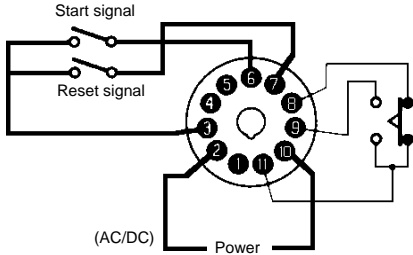
t = set time t-a = less than set time

In the schematic diagrams, each **thick line** indicates the external wiring necessary for the selected operation.

**Mode E Interval**

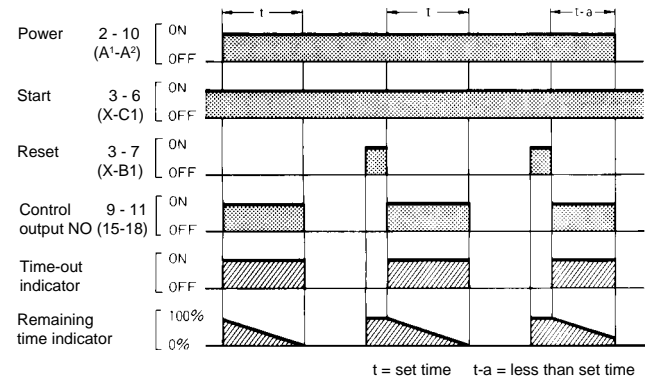
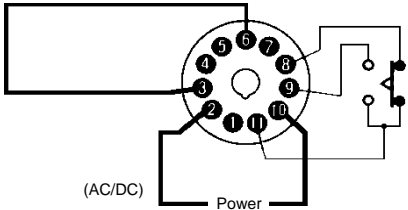
**Signal Start**

Power is applied continuously. Timing starts at the leading edge of the start input. The output relay is only energized during timing. The timer is reset when power is disconnected or a reset input is applied.



**Power-ON Start/Power-OFF reset**

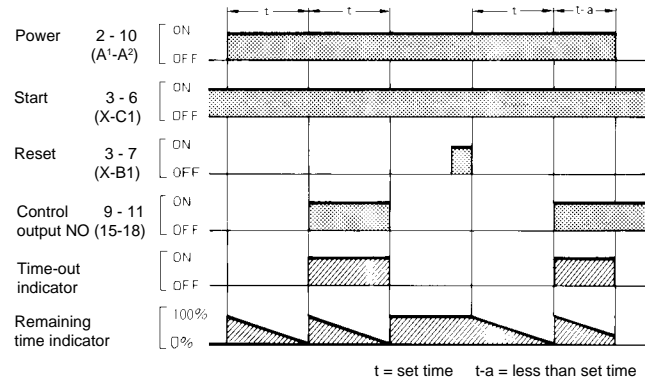
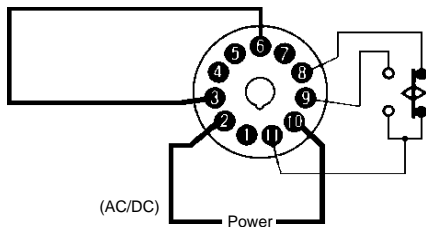
The start terminals are connected. Timing starts when power is applied. The output relay is only energized during timing. The timer is reset when power is disconnected or a reset input is applied.



**Mode F Cycle One-Shot**

**Power-ON Short/Power-OFF Reset**

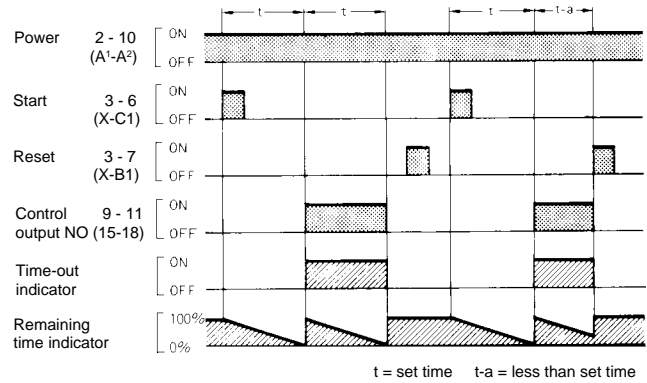
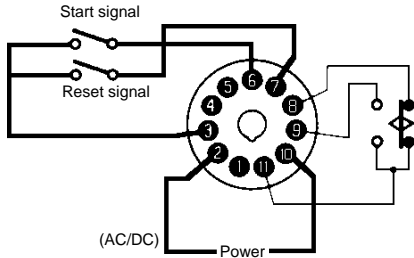
The start terminals are connected. Timing starts when power is applied. The output relay will be OFF for the set time and then ON for the set time. The timer is reset when power is disconnected or a reset input is applied.



In the schematic diagrams, each **thick line** indicates the external wiring necessary for the selected operation.

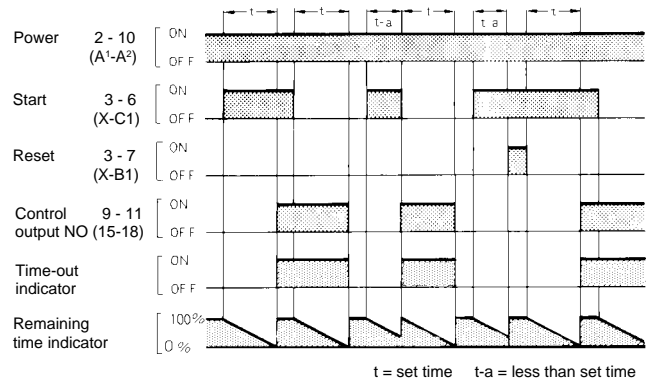
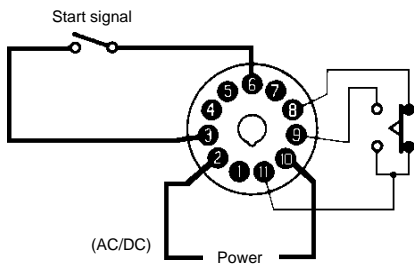
**Signal Start**

Power is applied continuously. The OFF/ON cycle is initiated at the leading edge of the start input. The output relay will be OFF for the set time and then ON for the set time. The timer is reset when power is disconnected or a reset input is applied.



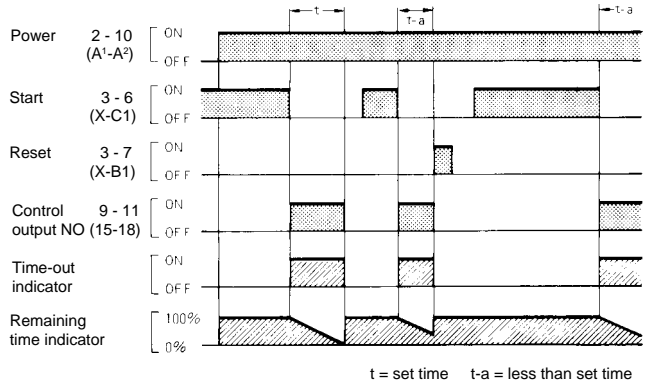
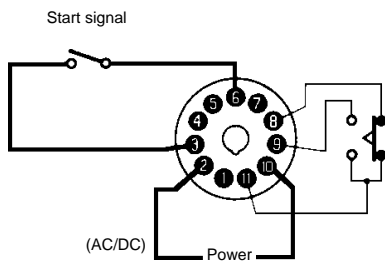
**Mode G Signal ON-delay/OFF-delay**

Power is continuously applied. Timing begins on both the leading and trailing edges of the start input. The output relay is energized when the accumulated time from the leading edge equals the set time. It is also energized for the set amount of time from the trailing edge of the start input.



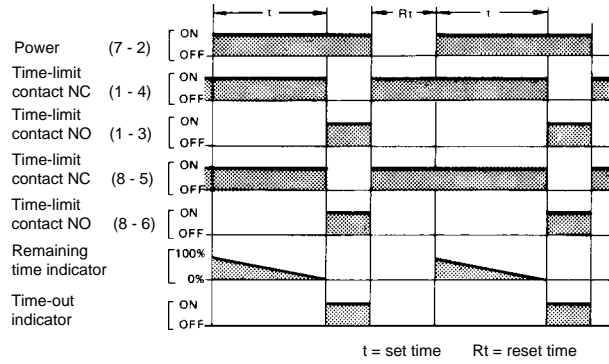
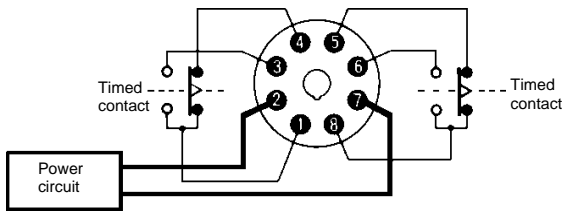
**Mode H Signal OFF-Delay (II)**

Power is continuously applied. Timing starts at the trailing edge of the start input. The output relay is energized during timing.

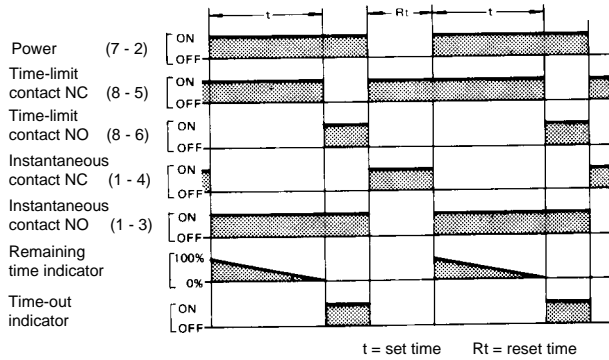
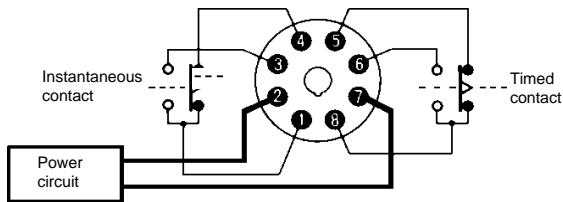


In the schematic diagrams, each **thick line** indicates the external wiring necessary for the selected operation.

■ H3CA-8



■ H3CA-8H

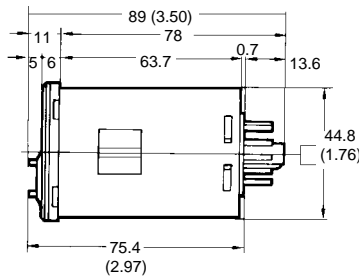
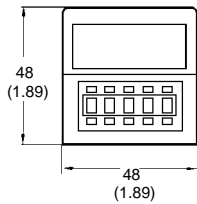
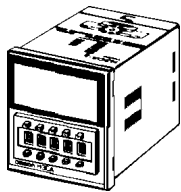


Dimensions

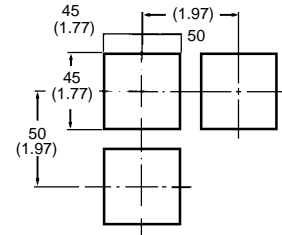
Unit: mm (inch)

■ TIMERS

H3CA-A



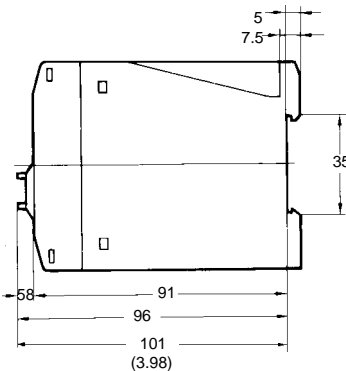
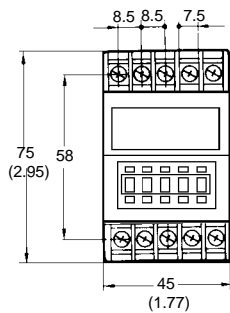
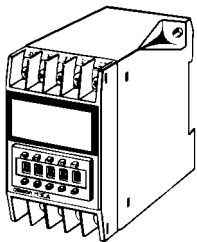
Panel cutout



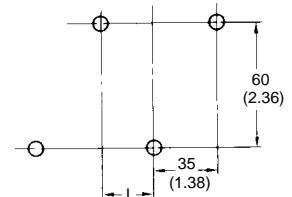
Note: Recommended panel thickness is 1 to 3.2 mm.

Panel cutout conforms to DIN 43700.

H3CA-FA



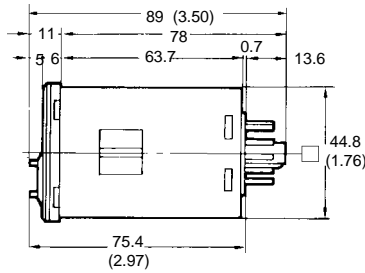
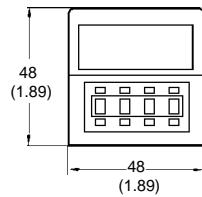
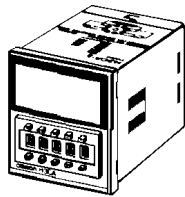
Mounting holes



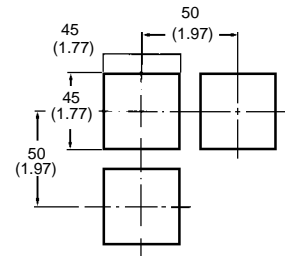
Note: When mounting two or more timers next to one another, allow 10 mm (0.39 in) between timers (dimension L).



H3CA-8, H3CA-8H



Panel cutout



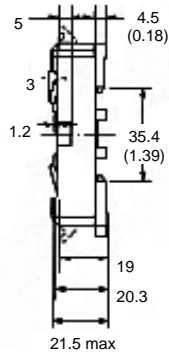
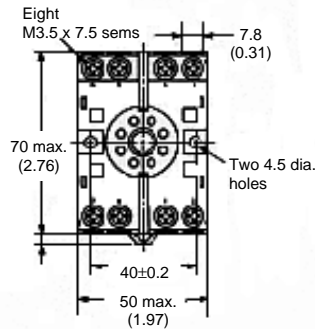
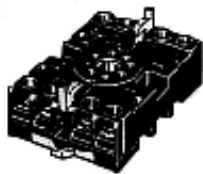
Note: Recommended panel thickness is 1 to 3.2 mm.

Panel cutout conforms to DIN 43700.

■ ACCESSORIES

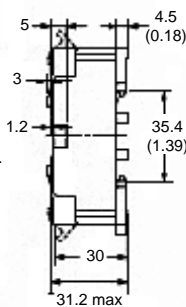
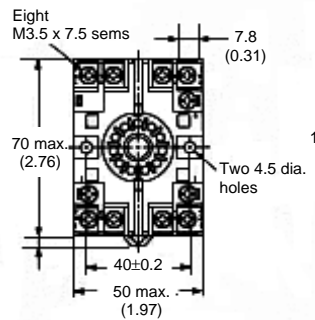
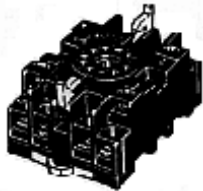
P2CF-08-E Finger Safe Terminal Type

Conforming to VDE0106/P100



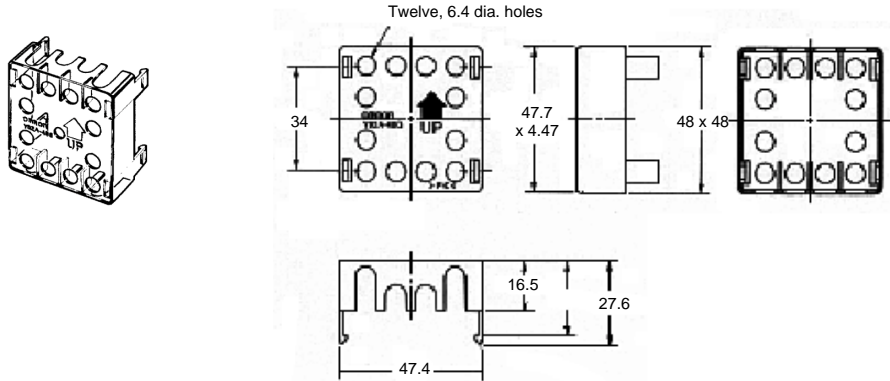
P2CF-11-E Finger Safe Terminal Type

Conforming to VDE0106/P100



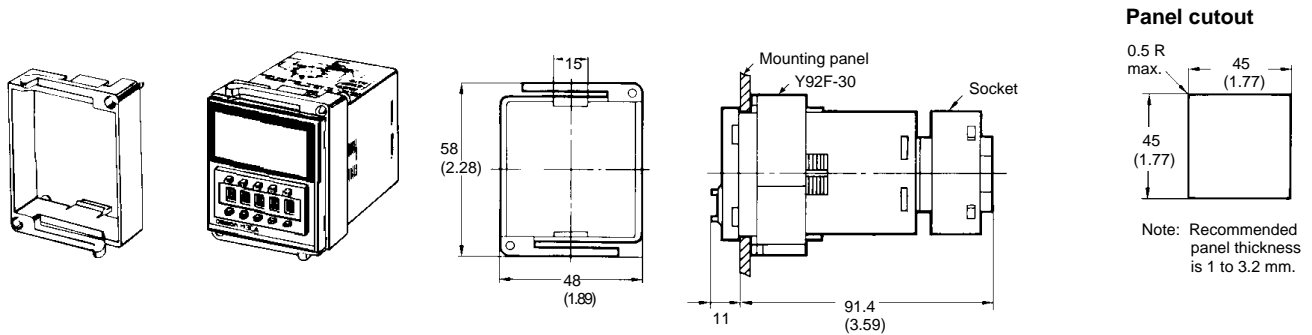
**Y92A-48G Finger Safe Terminal for P3G(A)**

Conforming to VDE0106/P100



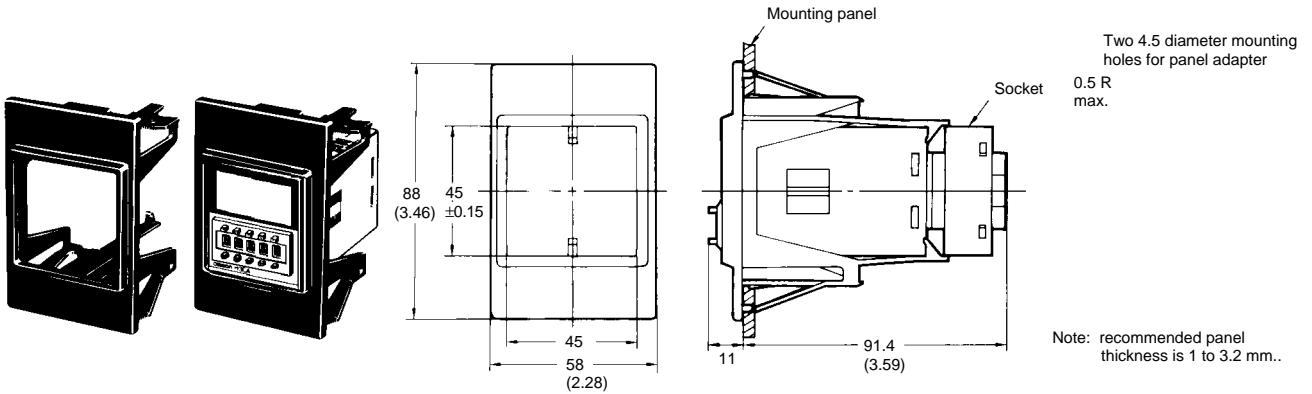
**Y92F-30 Panel Mounting Adapter**

Adapter installs behind the panel. It is ideal for side by side installation. Use P3GA-11 or P3G-08 sockets.



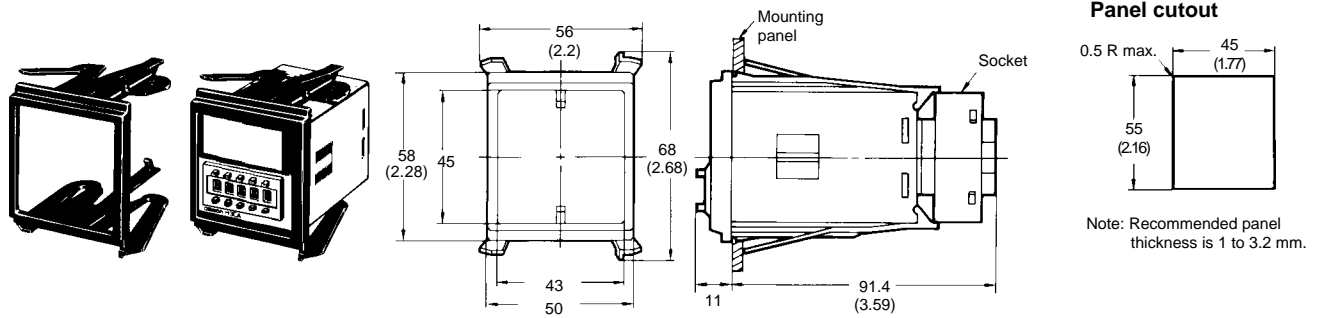
**Y92F-70 Panel Mounting Adapter**

Charcoal gray panel adapter installs through panel front. Timer fits bezel, rear of timer clips to adapter. Use P3GA-11 or P3G-08 sockets.



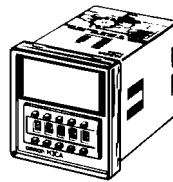
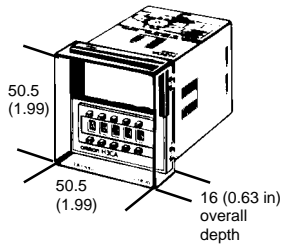
**Y92F-71 Panel Mounting Adapter**

Charcoal gray panel adapter installs through panel front. Timer face fits bezel, rear of timer clips to adapter. Use P3GA-11 or P3G-08.



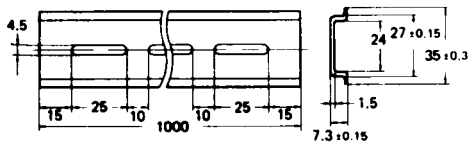
**Y92A-48B Hard Plastic Cover**

**Y92A-48D Soft Plastic Cover**

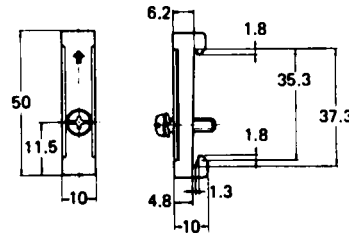


Hard plastic cover Y92A-48B and soft plastic cover Y92A-48D snap onto the front of the timer to protect against dust and water. The Y92A-48B hard plastic cover prevents accidental resetting. Y92A-48D soft plastic cover fits snugly over the front and allows settings to be changed. These covers are intended for use in areas where unusual service conditions do not exist.

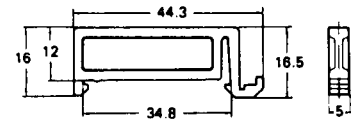
**PPF-100N/PPF-50N Mounting Track**



**PPF-M End Plate**



**PPF-S Spacer**



**Connections**

| Part number | Input terminal numbers (no-voltage only) |       |       |       |     | Power supply terminal numbers |               | Output terminal numbers |     |    |    |
|-------------|--|-------|-------|-------|-----|-------------------------------|---------------|-------------------------|-----|----|----|
|             | Gate                                     | Start | Reset | Check | COM | AC (common), DC-              | AC (hot), DC+ | Type                    | COM | NC | NO |
| H3CA-A      | 5  | 6     | 7     | 4     | 3   | 2                             | 10            | Timed contact           | 11  | 8  | 9  |
| H3CA-FA     | D1                                       | C1    | B1    | E1    | X   | A2                            | A1            | Timed contact           | 15  | 16 | 18 |
| H3CA-8H     | -  | -     | -     | -     | -   | 2                             | 7             | Instantaneous           | 1   | 4  | 3  |
| H3CA-8      | -  | -     | -     | -     | -   | 2                             | 7             | Timed contact           | 8   | 5  | 6  |
|             |  |       |       |       |     |                               |               | Timed contact           | 1   | 4  | 3  |
|             |  |       |       |       |     |                               |               | Timed contact           | 8   | 5  | 6  |

CONTACT SIGNAL INPUTS

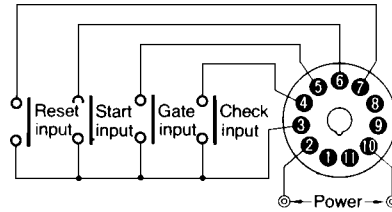
Input Signal Requirements

|                  |                                  |
|------------------|----------------------------------|
| Resistance       | 1 KΩ max.                        |
| Residual voltage | 1 V max. when the contact makes  |
| Contact material | Gold-plated contacts recommended |

H3CA-A

- Start input contact between terminals 3 and 6.
- Reset input contact between terminals 3 and 7.
- Gate input contact between terminals 3 and 5.
- Check input contact between terminals 3 and 4.

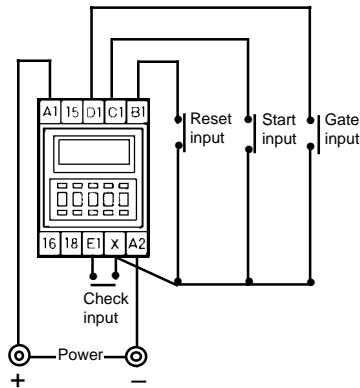
H3CA-A



H3CA-FA

- Start input contact between terminals X and C1.
- Reset input contact between terminals X and B1.
- Gate input contact between terminals X and D1.
- Check input contact between terminals X and E1.

H3CA-FA



SOLID-STATE SIGNAL INPUTS

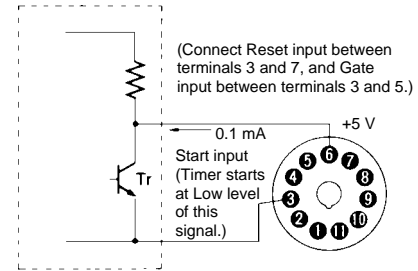
Input Signal Requirements

|  |                           |
|--|---------------------------|
| Input type                               | Open collector transistor |
| Voltage when collector is OFF            | 20 V min.                 |
| Saturated voltage when transistor is ON  | 1 V max.                  |
| Collector current                        | 50 mA max.                |
| Input current between collector and base | 0.5 μA max.               |
| Resistance when transistor is ON         | 1 KΩ max.                 |
| Residual voltage when transistor is ON   | 1 V max.                  |
| Resistance when transistor is OFF        | 200 KΩ min.               |

Solid-State Inputs (Not Open Collector Type)

Proximity and photoelectric sensors often have NPN or PNP type solid-state output circuits and rated supply voltages ranging from 6 to 30 VDC. These signals are applied to the timer according to the diagram below.

Solid-state circuit (proximity sensor, proximity sensor, etc.)



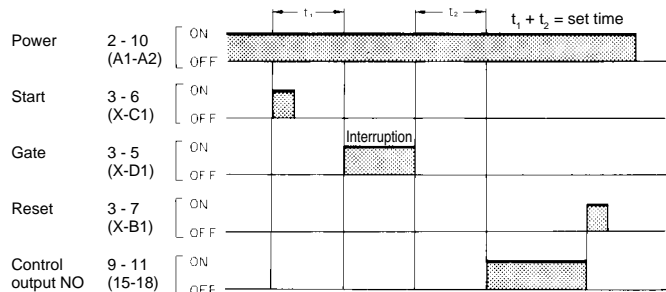
H3CA-A and H3CA-FA

Solid-state input terminal connections are the same as those for contact signal inputs.

CUMULATIVE TIMING

Using the Gate Input with ON-Delay

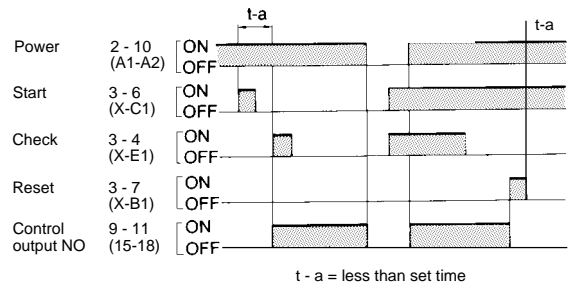
When the gate signal is closed, timing is temporarily stopped. When the gate signal opens, timing resumes at the point of interruption. The gate input terminal permits the timer to sum up times  $t_1$  and  $t_2$  as shown in the timing chart.



■ CHECK INPUT

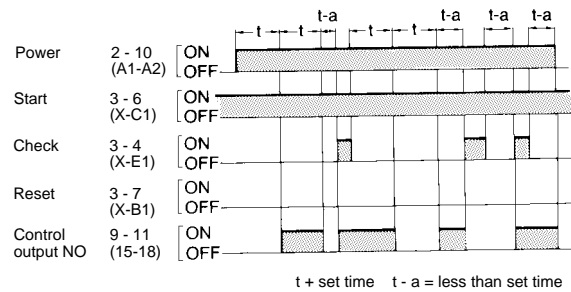
ON-Delay Operation

When a no-voltage input signal is applied to the timer during the lapse of a set time, the remaining set time will become 0 and the timer will enter the next control state. Also, while the Check Signal is applied, the elapsed time measurement of the set time is not performed. The Check input is especially useful where ON-delay override may be desirable.



Repeat Cycle Operation

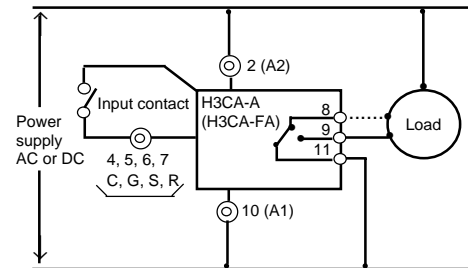
The Check input signal in Repeat cycle mode allows the timer to be used like a binary flip-flop or alternating relay. Set an unattainable time, such as 999 hours. Apply the no-voltage Check input to shift output status from ON to OFF, or vice-versa. Jumper terminals 3 and 6 (X and C1) to short the start function. The Check input then controls the output relay like a flip-flop or alternating relay. This may be used to alternate wear on main and secondary equipment such as pumps.



Installation

■ PROPER INPUT CONNECTIONS (H3CA-A, H3CA-FA)

The neutral or common of the power supply is connected to terminal 2 (A2) of the timer. Terminal 10 (A1) should be connected to the "hot" or positive of the power supply. Do not apply voltage to Check, Gate, Start and Reset inputs. These are no-voltage type inputs.



■ PROPER OUTPUT CONNECTIONS

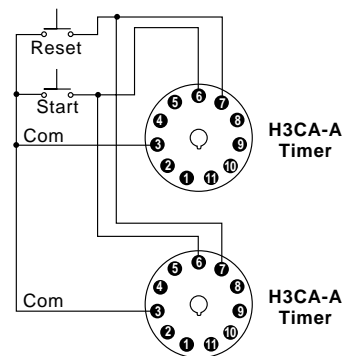
Design your control circuit using the output relay contacts to switch the load. **Never switch a load with the contact that is being used as an input signal.** The timer's circuitry may be damaged.

■ PARALLEL CONNECTIONS

Parallel connection of two or more Omron Timers is possible as shown by the diagram to the right.

This will allow the simultaneous start or restart of multiple timers using a single switch for the Start Input and a single switch for the Reset Input.

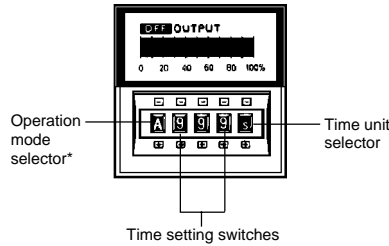
It is possible to wire only up to 4 timers in this manner. Wiring more than 4 results in poor performance due to excessive voltage drop.



# Operation

## SELECTING TIME RANGE

Use the rightmost pushwheel switch to select the time range. Use the three center pushwheel switches to select the time setting between 000 and 999. For ranges with 0.1 time units, the decimal point is assumed to be between middle and right digits.



| Time unit | Timing range        |
|-----------|---------------------|
| 0.1 s     | 0.1 to 99.9 seconds |
| s         | 1 to 999 seconds    |
| 0.1 m     | 0.1 to 99.9 minutes |
| m         | 1 to 999 minutes    |
| 0.1 h     | 0.1 to 99.9 hours   |
| h         | 1 to 999 hours      |
| 10 h      | 10 to 9990 hours    |

Note: \*Operation mode selector not included with ON-delay timers.

## SELECTING OPERATION MODES (H3CA-A, H3CA-FA)

The operation mode is selected by the leftmost pushwheel switch.

| Mode | Operation                 |
|------|---------------------------|
| A    | ON-delay                  |
| B    | Repeat cycle              |
| C    | Signal Interval/OFF-delay |
| D    | Signal OFF-delay I        |
| E    | Interval                  |
| F    | Cycle                     |
| G    | Signal ON-delay/OFF-delay |
| H    | Signal OFF-delay II       |

## CAUTIONS

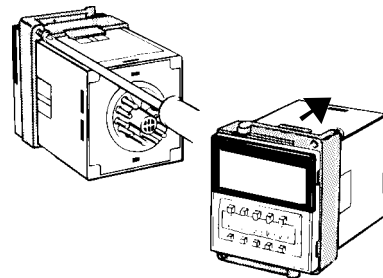
Do not change the time unit or time range while the timer is in operation. Otherwise, the timer may malfunction or be damaged. Be sure to turn off the power supply to the timer before changing any of the selections.

# Mounting

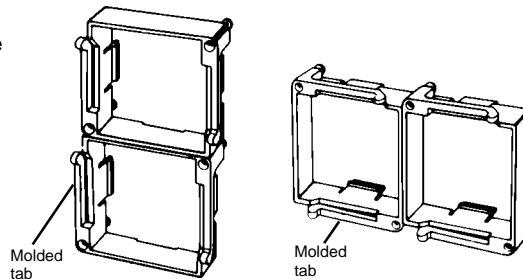
## PANEL MOUNTING

### Using Y92F-30 Adapter

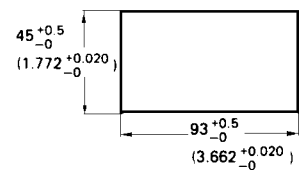
Insert the timer through the panel cutout. Push the Y92F-30 adapter from the rear of the timer as far forward toward the panel as possible. Wire the P3G□-□□ socket, then push it onto the rear of the timer. Then, tighten the two retaining screws. To release the adapter, lift the tab at the rear of the adapter.



Several timers may be mounted close together using Y92F-30 adapter as shown here. When mounting two or more timers in a vertical line, arrange the adapters so that their molded tabs are positioned on the right and left sides. When mounting two or more timers in a horizontal line, arrange the adapters so that their molded tabs are positioned on the top and bottom sides.



### Panel cutout for side-by-side mounting of two timers

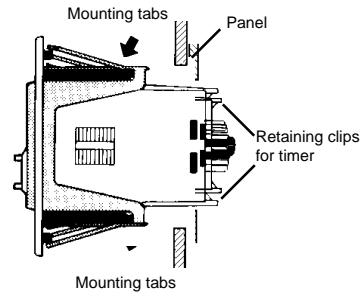


## Using Y92F-70 and Y92F-71 Adapters

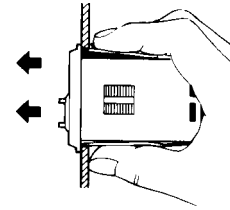
Install the H3CA timer, face first, into the back side of the Y92F-70 or Y92F-71 adapter so the bezel fits snugly. Be sure the retaining clips at the back of the adapter fit into the slots on either side of the timer. Compress the top and bottom tabs of the adapter then push the adapter through the front side of the panel cutout. Be sure the tabs extend after installation for a secure fit.

To remove the timer from the adapter, unclip the two retaining clips at the back of the adapter. To remove the adapter and timer from the panel as a unit, compress the tabs behind the panel and push the unit out the front of the panel.

### Installation



### Removal

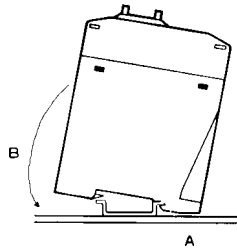


## ■ TRACK MOUNTING

### H3CA-FA with Built-In Track Adapter

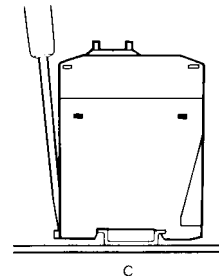
#### Mounting

First hook part "A" on the rear of the timer onto an edge of the track. Then, press the timer in direction "B" until the latch on the bottom rear of the timer locks securely.



#### Removal

Pull the latch "C" with a flat-blade screwdriver and remove the timer from the mounting track.

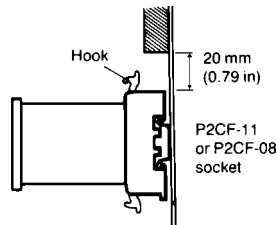


## P2CF-□□ Socket

For H3CA-A, H3CA-8 and H3CA-8H

#### Mounting

The P2CF-□□ socket has two hooks that secure the timer to the socket. Be sure to allow at least 20 mm (0.79 in) clearance above and below the socket to gain access and to release the hooks for servicing and maintenance. Insert timer into the socket. Latch hooks. Then clip rear of the socket to the track. Push the bottom onto the track until the latch hooks securely.



#### Removal

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

**NOTE: DIMENSIONS ARE SHOWN IN MILLIMETERS. To convert millimeters to inches divide by 25.4.**

# OMRON

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