<u> 査询H2C-8供应商</u> O R O N O

Motor Timer

DIN-sized (48 x 48, 45 x 75 mm) Motor Timer with Variable Time Ranges

- Five time ranges are selectable per timer unit.
- Easy-to-monitor neon lamp for timing operation indication (for 110, 120, 220, 240 VAC types only).
- Conforms to VDE0110 Group C for creepage distance.
- Easy-to-set large transparent knob and easy-toread single pattern scale facilitate time setting.
- Equipped with timing operation indicator and moving pointer.

RC

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Ordering Information

Operation/resetting system	Internal connection	Terminal	Time-limit contact	Instantaneous contact	Model	
					Surface mounting/ track mounting	Flush mounting
Time-limit operation/ self-resetting	Separate motor and clutch connection	8-pin round socket	SPDT	SPDT	H2C-8	H2C-8 (with Y92F-30 adapter)
		11-pin round socket			H2C	H2C (with Y92F-30 adapter)
		Front screw			H2C-F	
Time-limit operation/ electric resetting		8-pin round socket	SPDT		H2C-8R	H2C-8R (with Y92F-30 adapter)
		11-pin round socket		SPDT	H2C-R	H2C-R (with Y92F-30 adapter)
		Front screw			H2C-FR	

Note: Specify both the model number and supply voltage when ordering.

Accessories (Order Separately)

Timer	Track mounted socket	Back connecting socket		
	(see note 1)	Solder terminal	Screw terminal	
H2C-8, H2C-8R	P2CF-08, PF085A	PL08	P3G-08	
H2C, H2C-R	PF113A	PL11	P3GA-11	

Note: Track mounted socket can be used as a front connecting socket.



Specifications ·

Time Ranges

Five time ranges are available for each timer by turning the time range selector every 60 degrees.

Note: Rated time is displayed on the window.

Time range code	Position of time range selector				
А	1.25 to 30 s	7.5 s to 3 min	1.25 to 30 min	7.5 min to 3 hrs	1.25 to 30 hrs
В	0.2 to 6 s	2 to 60 s	0.2 to 6 min	2 to 60 min	0.2 to 6 hrs
С	0.5 to 12 s	5 to 120 s	0.5 to 12 min	5 to 120 min	0.5 to 12 hrs

Ratings

Item	H2C		
Rated supply voltage	100, 110, 115, 120, 200, 220, or 240 VAC (50/60 Hz) (see note 1)		
Operating voltage range	85% to 110% of rated supply voltage (see note 2)		
Power consumption	Approx. 3.5 VA		
Control outputs	6 A at 250 VAC, resistive load ($\cos\phi = 1$) (see note 3)		

Note: 1. The front panel of the timer is color coded to identify the following supply voltage classifications:

100 to 120 V: Blue

200 to 240 V: Red

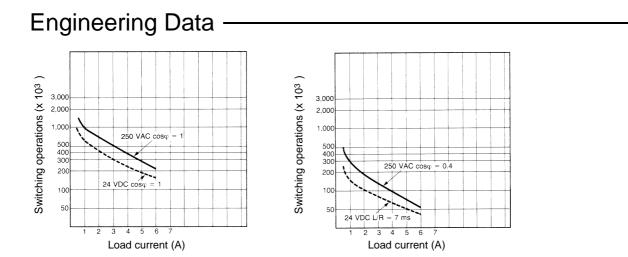
Other classes: Black

2. If the voltage continues to be applied after the set time has elapsed, the operating voltage range will change to between 90% and 110% of the rated voltage.

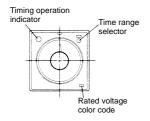
3. The switching capacity of the control output is 6 A at 250 VAC (cosΦ = 1). Refer to "Engineering Data" since the electrical service life of the built-in switch will change in such a case.

Characteristics

Accuracy of operating time	$\pm 0.5\%$ max. $\langle \pm 1\%$ max. at 0.2 to 6 s for the time range code B or at 0.5 to 12 s for the time range code C)	
Setting error	±2% max.	
Reset time	0.5 s max.	
Influence of voltage	±1% max.	
Influence of temperature	±2% max.	
Insulation resistance	100 MΩ min. (at 500 VDC)	
Dielectric strength	2,500 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts) 2,000 VAC, 50/60 Hz for 1 min (between contact and control circuit and between contacts of different polarities) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)	
Vibration resistance	Destruction: 10 to 55 Hz with 0.75-mm double amplitude Malfunction: 10 to 55 Hz with 0.5-mm double amplitude	
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 150 m/s ² (approx. 15G)	
Ambient temperature	Operating: -10°C to 50°C Storage: -25°C to 65°C	
Ambient humidity	Operating: 45% to 85%	
Life expectancy	Mechanical: 10,000,000 operations min. 500,000 operations min. (3 A at 250 VAC, resistive load at 1,800 operations/h Electrical: See <i>"Engineering Data"</i>	
Motor life expectancy	20,000 hrs	
Approved standards	UL (File No. E52800)	
Weight	H2C series: approx. 180 g H2C-F series: approx. 270 g	



Nomenclature



Operation

Timing Chart

H2C-8 H2C-8R **ON-delay 8-pin Round Socket OFF-delay 8-pin Round Socket** Power failure Set time Set time Rt time (t) Set time (T) Motor and clutch (2-7) Power and motor (2-7) -[NC(8-5) NO(8-6) Time-limit T + Power and clutch (1-4) contacts h r NC(8-5) NC(1-4) Instantaneous Time-limit contacts contacts L NO(8-6) L NO(1-3) Timing operation indicator lamp Timing operation indicator lamp Rt: Resetting time Rt: Resetting time H2C(-F) H2C-(F)R Power failure time (t) Set time (T) Set time Set tim Rt R Power and motor 2(A1)-10(A2) Power and motor 2(A1)-10(A2) т Power and clutch 7(B1)-6(B2) Power and clutch 7(B1)-6(B2) - NC 1(15)-4(16) NC 1(15)-4(16) Time-limit Time-limit contacts contacts NO 1(15)-3(18) LNO 1(15)-3(18) NC 11(21)-8(22) NC 11(21)-8(22) Instantaneous Instantaneous contacts LNO 11(21)-9(24) contacts LNO 11(21)-9(24) Timing operation indicator Timing operation indicator (see note) (see note) Rt: Resetting time Rt: Resetting time

Note: For the types rated at 24 and 48 VAC, the timing operation indicator is not equipped.

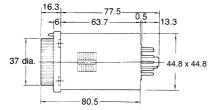
H₂C

Dimensions

Note: All units are in millimeters unless otherwise indicated.

H2C/H2C-R/ H2C-8/H2C-8R



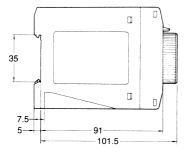


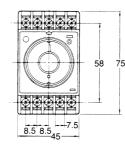
For Flush Mounting



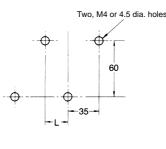
For a load current of 3 A max., dimension L becomes 3 mm min. with an interval of 0 mm between timers. For a load current of 6 A max., dimension L becomes 8 mm min. with an interval of 5 mm between timers.

H2C-F/H2C-FR

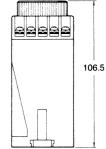




Mounting Holes



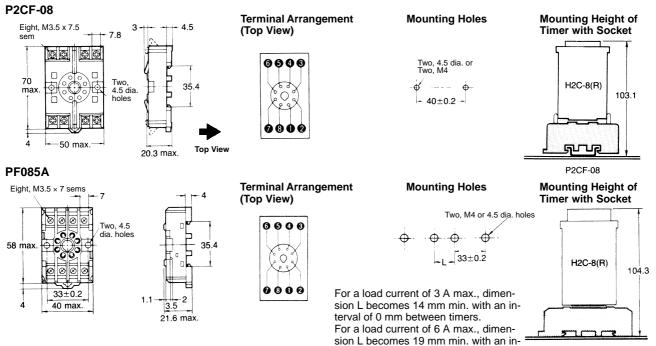




For a load current of 1 A max., dimension L becomes 10 mm min. with an interval of 0 mm between timers. For a load current of 3 A max., dimension L becomes 15 mm min. with an interval of 5 mm between timers. For a load current of 6 A max., dimension L becomes 20 mm min. with an interval of 10 mm between timers.

Accessories (Order Separately)

Track Mounted/Front Connecting Socket



terval of 5 mm between timers.

H2C			——— H2C
PF113A f(x) = 1	Terminal Arrangement (Top View)	t Mounting Holes Two, M4 or 4.5 dia. holes 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	
<u>Back Connecting Socket</u> PL08 (Solder Terminals)	Terminal Arrangement	Mounting Holes	Mounting Height of
FLUE (Solder Terminals) The second seco	(Bottom View)	Two, 3.5 dia. or 3M socket mounting holes	Timer with Socket H2C-8 80.5 16 Mounting Height of Timer with Socket H2C(-R) 80.5 5 15.5
P3G-08	Terminal Arrangement (Bottom View)		Mounting panel Mounting panel H2C-8 80.5 21.5+
27 dia.	Terminal Arrangement (Bottom View)		

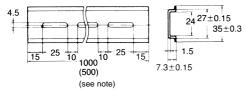




(Bottom View)

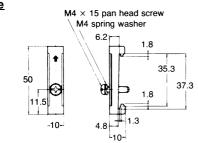


Mounting Track (Meets DIN EN50022) PFP-100N/PFP-50N

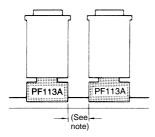


Note: This dimension applied to PFP-50N.

End Plate PFP-M

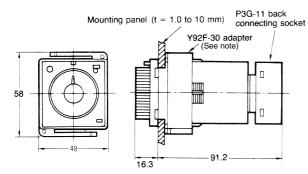


H2C (with PF113A)



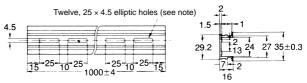
Note: For a load current of 3 A max., a spacer and an end plate are not required. For a load current of 6 A, one spacer or an end plate is required.

Adapter for Flush Mounting Y92F-30



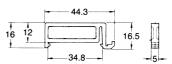
Note: The adapter can be mounted to the timer form any side of the timer housing since the adapter security notches are provided on all four sides of the housing.

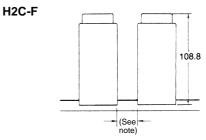
PFP-100N2



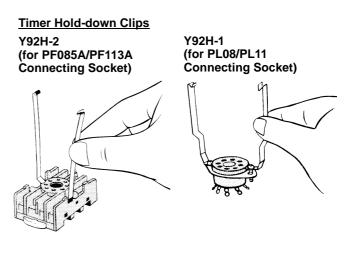
Note: A total of twelve, 25 x 4.5 elliptic holes are provided with 6 holes cut from each rail end at a pitch of 10 mm between holes.

PFP-S





Note: For a load current of 1 A max., a spacer and an end plate are not required. For a load current of 3 A max., one spacer or an end plate is required. For a load current of 6 A max. two spacers or two end plates are required.



Protective Cover

Y92A-48B

Time Setting Ring

Y92A-Y1

The time setting ring locks the time setting knob to store the set time to facilitate its resetting. A maximum of two time setting rings are connectable per timer.

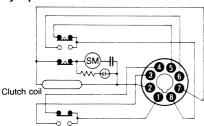


Installation

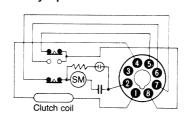
Terminal Arrangement



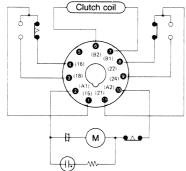
ON-delay 8-pin Round Socket

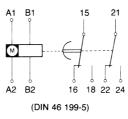


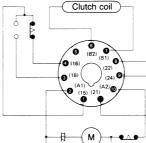
H2C-8R OFF-delay 8-pin Round Socket



H2C(-F)

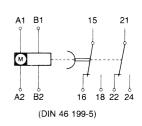






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H2C-(F)R





The protective cover shields the front panel, particularly the time setting section, from dust, dirt, and water,

as well as prevents the set value from being altered due to accidental contact with the time setting knob.

H2C

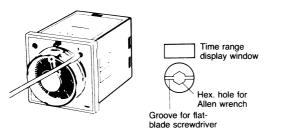
Precautions

How to Change the Time Range

Change the positions of the time range selector with a flat-blade screwdriver or an Allen wrench.

[−]∕!∖ Caution [·]

Be sure to turn the power off before changing the time specification. Changing the time range while the timer is in operation may cause a malfunction.

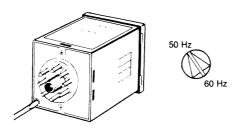


How to Select Power Frequency

-<u>/</u>Notice -

Power frequency

Before using the timer, set the frequency selector located at the rear panel to the proper power frequency (50 or 60 Hz). Note that if the frequency selector is set incorrectly, time measurement may not be performed accurately against the set time.



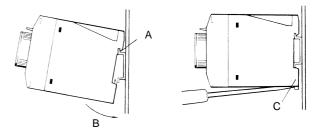
How to Mount the Timer on Mounting Track

Mounting

First hook portion A of the timer to the mounting track, then depress the timer in direction ${\sf B}.$

Dismounting

Pull out portion C with a round-blade screwdriver and remove the timer from the mounting track.



Electrical Set

The motor and clutch do not need to be reset simultaneously. Use the voltage applied to the clutch for resetting with the H2C-R. Do not allow power to be continuously applied to the motor and clutch for extended periods of time.

Others

Do not turn the operation time setting knob beyond the range of the scale. To achieve higher accuracy in setting, measure the operation time while turning the operation time setting knob.

The deviation and setting error for the operation time shows the percent of FS. The absolute value of the deviation and setting error will not change even if the set time is changed. The time specifications should therefore be selected to use the operation time as close to FS as possible.

At high temperatures, the operation voltage will be 90% or less if voltage is applied continuously after timeout. Be sure to keep the voltage within the allowable voltage fluctuation range.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.