

Solid-State Power OFF-Delay Timer

H3CR-H

1/16 DIN, Analog-Set Timer with Power-OFF Delay, Four Selectable Ranges

- Extended power OFF-delay timer, up to 12 seconds, for S-type and 12 minutes for M-type models
- Forced resetting type provides a manual override of the timing function
- 11-pin and 8-pin models are available
- Red LED output indicator



Ordering Information

■ TIMERS

Part number	H3CR-HRL		H3CR-H8L		H3CR-H8RL	
Timing function	Power OFF-delay					
Contact type	DPDT				SPDT	
Forced resetting	Available				Available	
Timing units	S-series (seconds)	M-series (minutes)	S-series (seconds)	M-series (minutes)	S-series (seconds)	M-series (minutes)
Terminal form	11-pin models		8-pin models			
Supply voltages	100 to 120 VAC, 200 to 240 VAC, 24 VAC/DC, 100 to 125 VDC					

Note: Specify both the supply voltage and time unit code (S or M) in addition to the model number when ordering.

Example: H3CR-H8L 24 VAC/DC M

Time unit code
 Supply voltage

■ MODEL NUMBER LEGEND

H3CR -

1 2 3 4

1. Classification

H: Power OFF-delay timer

2. Configuration

None: 11-pin socket

8: 8-pin socket

3. Input

None: Without reset input

R: With reset input

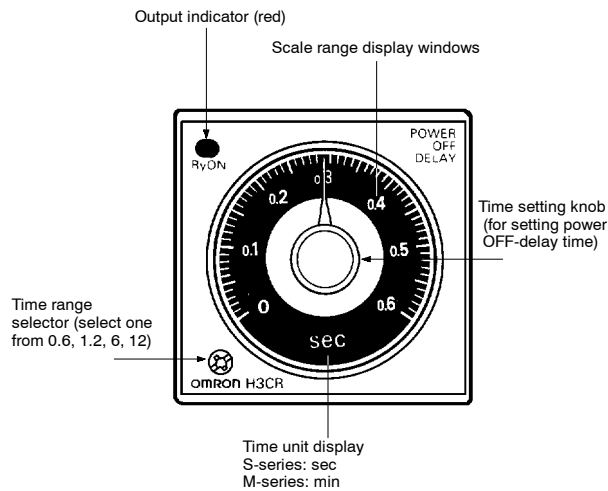
4. Dimensions

L: Long-body model

■ ACCESSORIES (ORDER SEPARATELY)

Description		Part number	
Sockets	11-pin	Bottom surface or track mounting, top screw terminals	P2CF-11
		Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100	P2CF-11-E
		Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals	P3GA-11
	8-pin	Bottom surface or track mounting, top screw terminals	P2CF-08
		Bottom surface or track mounting, top screw terminals, finger safe terminal conforms to VDE0106/P100	P2CF-08-E
		Back mounting, for use with Y92F-30 mounting adapter, bottom screw terminals	P3G-08
Terminal cover for P3G sockets, conforms to VDE0106/P100		Y92A-48G	
Panel mounting adapter	Fits behind panel, ideal for side-by-side installation. Use P3G _ _ sockets		Y92F-30
	Panel-mounting adapter (88 mm x 58 mm x 63.7 mm)		Y92F-70
	Panel-mounting adapter (58 mm x 50 mm x 63.7 mm)		Y92F-71
Protective cover	Hard plastic cover protects against dust, dirt and water (not for use with panel covers)		Y92A-48B
NEMA 4 cover	Waterproof front cover		Y92A-48N
Colored panel covers	Light gray (Munsell No. 5Y7/1) to match case		Y92P-48GL
	Medium gray (Munsell No. 5Y5/1)		Y92P-48GM
	Black (Munsell No. N1.5)		Y92P-48GB
Time setting rings	Used to lock-in a single setting; one ring, can be used with Y92P panel covers		Y92S-27
	Used to lock-in a setting range; two rings, can be used with Y92P panel covers		Y92S-28
Mounting track	DIN rail, 50 cm (1.64 ft) length; 7.3 mm thick		PFP-50N
	DIN rail, 1 m (3.28 ft) length; 7.3 mm thick		PFP-100N
	DIN rail, 1 m (3.28 ft) length; 16 mm thick		PFP-100N2
End plate			PFP-M
Spacer			PFP-S

■ RANGE SELECTION



Time range	S-series	M-series
	seconds	minutes
Setting	0.6	0.05 to 0.6
	1.2	0.1 to 1.2
	6	0.5 to 6
	12	1 to 12
Min. power ON time	0.1 sec min.	2 sec min.

Note: If the above minimum power ON time is not secured, the H3CR may not operate. Be sure to secure the above minimum power ON time.

Specifications

Part number		H3CR-H8L	H3CR-H8RL	H3CR-HRL
Supply voltage (see note)	AC	100 to 120 VAC (50/60 Hz), 200 to 240 VAC (50/60 Hz)		
	AC/DC	24 VAC/VDC (50/60 Hz)		
Operating voltage		85% to 110% of rated supply voltage		
Power consumption	AC	100 to 120 VAC: 0.18 VA (100 VAC applied) 200 to 240 VAC: 0.25 VA (200 VAC applied)		
	AC/DC	24 VAC/DC: 0.24 VA (24 VAC applied)/140 mW (24 VDC applied)		
Start, Reset, Gate inputs		ON-impedance: 1k Ω max. ON residual voltage: 1 V max. OFF impedance: 500 k Ω min		
Control outputs	Type	DPDT relay	SPDT relay	DPDT relay
	Max. load	5 A at 250 VAC, p.f. = 1		
	Min. load	10 mA at 5 VDC		
Repeat accuracy		\pm 0.3% full scale max. (\pm 0.3% full scale max. \pm 10 ms in ranges of 0.6 and 1.2 s)		
Setting error		\pm 5% full scale \pm 0.05 s max.		
Resetting system		Instantaneous operation/ Time-limit reset	Instantaneous operation/Time-limit reset/ Forced reset	
Resetting time		50 ms min.		
Indicators		Output ON indicator (red LED)		
Materials		Plastic case (light gray Munsell 5Y7/1)		
Mounting		Panel, track, or surface depending on socket selected		
Connections		11-pin round socket	8-pin round socket	
Weight		Approx. 120 g (4.23 oz.)		
Approvals		UL/CSA/CE		
Ambient temperature	Operating	-10° to 55°C (14° to 131°F) with no icing		
	Storage	-25° to 65°C (-13° to 149°F) with no icing		
Humidity		35% to 85%		
Vibration	Mechanical durability	10 to 55 Hz with 0.75-mm single amplitude each in three directions		
	Malfunction durability	10 to 55 Hz with 0.5-mm single amplitude each in three directions		
Shock	Mechanical durability	980 m/s ² (100G) each in three directions		
	Malfunction durability	98 m/s ² (10G) each in three directions		
Variation due to voltage change		\pm 0.5% full scale max. (\pm 0.5% full scale max. \pm 10 ms in ranges of 0.6 and 1.2 s)		
Variation due to temperature change		\pm 2% full scale max. (\pm 2% full scale max. \pm 10 ms in ranges of 0.6 and 1.2 s)		
Service life	Mechanical	10 million operations min. (under no load at 1,200 operations/h)		
	Electrical	100,000 operations min. (5 A at 250 VAC, resistive load at 1,200 operations/h)		
Insulation resistance		100 M Ω min. (at 500 VDC)		

Note: A power supply with a ripple of 20% max. (single-phase power supply with full-wave rectification) can be used with each DC model.