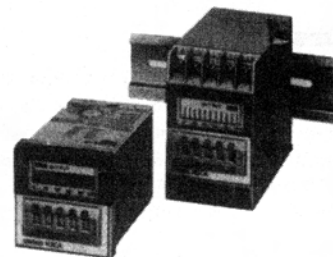


H3CA

Solid-State Timer

Features

- 1/16 DIN, digital-set timer with 0.1 second to 9,999 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
- Time remaining LCD bar graph and LCD output status indicator



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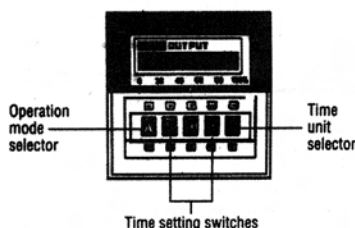
TIMERS & FLASHERS

Ordering Information

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

Note: 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.

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 9,999 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

Specifications

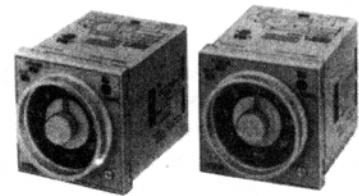
			Part number			
			H3CA-A	H3CA-FA	H3CA-8H	H3CA-8
Supply voltage	AC		24 to 240 V, 50/60 Hz		24 V, 100/110/120 V, 200/220/240 V; 50/60 Hz	
	DC		12 to 240 V		12 V, 24 V, 48 V, 110 V, (permissible ripple factor: 20% max. using single-phase, full-wave rectified power sources)	
Operating voltage			90 to 110% of rated voltage			
Power consumption	AC		3 VA		10 VA	
	DC		3 W		2 W	
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	Time limit	SPDT		SPDT	DPDT
		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)			
Mounting			Panel, track, surface			
Approvals	UL		Recognized, File No. E41515			
	CSA		Certified, File No. LR22310			
	Others		SEV, File No. 1021			

H3CR

Solid-State Timer

Features

- 1/16 DIN analog-set timer with many time ranges, operating modes, and aesthetics options
- Field-selectable time ranges from 0.05 second to 300 hours
- Choose 6- or 2-function models to handle most applications
- Wide range AC supply voltage models (100 to 240 VAC) fits most applications and reduces spare parts inventories
- Three external signal inputs for remote control of the timer

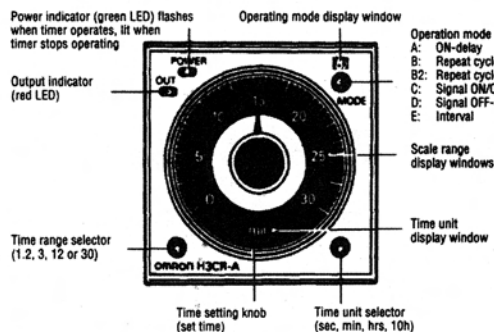


Ordering Information

Timers

Timing functions	ON-delay, Repeat cycle (B, B2), Signal ON/OFF delay, Signal OFF-delay, Interval	ON-delay and Interval
Terminal form	11-pin round	8-pin round
Contact output	100 to 240 VAC, 50/60 Hz	H3CR-A-AC100-240
Instantaneous output contact	100 to 240 VAC, 50/60 Hz	H3CR-A8EL-AC120-240

Range and Operation Mode Selection



Timing range	Time units			
	sec(onds)	min(utes)	hrs (hours)	10h (10 hours)
1.2	0.05 to 1.2	0.12 to 1.2	0.12 to 1.2	1.2 to 12
3	0.3 to 3	0.3 to 3	0.3 to 3	3 to 30
12	1.2 to 12	1.2 to 12	1.2 to 12	12 to 120
30	3 to 30	3 to 30	3 to 30	30 to 300
0	Instantaneous output*			

* Set time setting knob below zero.

Specifications

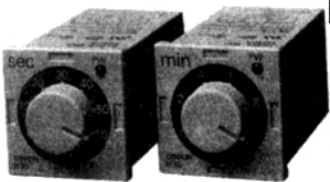
Part number		H3CR-A	H3CR-AS	H3CR-A8	H3CR-A8S	H3CR-A8EL
Supply voltage	AC	24 V or 100 to 240 VAC, 50/60 Hz				
	DC	12 V or 24 V				
Operating voltage	AC	85% to 110% of rated supply voltage				
	DC	90% to 110% of rated supply voltage at 12 VDC				
Power consumption	AC	10 VA				
	AC/DC	1.5 VA (AC), 0.8 W (DC)				
	DC	1.3 W				
Timing functions		ON-delay, Repeat cycle signal OFF start, Repeat cycle signal ON start, Signal ON/OFF delay, Signal OFF-delay, Interval		ON-delay, Interval		
Start, Reset, Gate inputs H3CR-A, H3CR-AS		No-voltage inputs ON impedance: 1 kΩ max. ON residual voltage: 1 V max. OFF impedance: 100 kΩ min.		—		
Control output	Type	DPDT relay	Transistor (NPN/PNP)	DPDT relay	Transistor (NPN/PNP)	SPDT relay (instantaneous contact)
	Max. load	5 A, 250 VAC (p.f.=1)	100 mA, 30 VDC	5 A, 250 VAC (p.f.=1)	100 mA, 30 VDC	5 A, 250 VAC (p.f.=1)
	Min. load	10 mA, 5 VDC	10 mA, 5 VDC	10 mA, 5 VDC	10 mA, 5 VDC	10 mA, 5 VDC
	Residual voltage	—	2 V max.	—	2 V max.	—
Repeat accuracy		±0.3% full scale max., except in 1.2 s range ±0.3% ±10 ms				
Mounting		Panel, track or surface depending on socket selected				
Approvals	UL	Recognized, File Number E41515				
	CSA	Certified, File Number LR22310				

H3G

Solid-State Timer

Features

- Low-cost, plug-in timer with large switching capacity
- Up to 7 A switching capacity
- Choose SPDT or DPDT contact form
- 12 time ranges
- Ideal replacement for time relays
- Subminiature DIN size, 36 x 36 mm (1.417 x 1.417 in.)



10

TIMERS & FLASHERS

Ordering Information

Timing function	ON-delay		
Contact type	Time limit	SPDT	DPDT
	Instantaneous	—	—
Terminal form	8-pin round socket		
Part number	H3G-8A		H3G-8C
Supply voltages	100/110/120 VAC or 200/220/240 VAC; 50/60 Hz		
Time range codes	1 s, 5 s, 10 s, 30 s, 60 s, 5 m, 10 m, 30 m, 60 m		

Note: Add the supply voltage and time range code to the part number when you order. For example, H3G-8A AC100/110/120-60s.

Time Ranges

Code	Range	Code	Range	Code	Range
1 s	0.1 to 1 second	30 s	3 to 30 seconds	10 m	1 to 10 minutes
5 s	0.5 to 5 seconds	60 s	6 to 60 seconds	30 m	3 to 30 minutes
10 s	1 to 10 seconds	5 m	0.5 to 5 minutes	60 m	6 to 60 minutes

Specifications

Part number			H3G-8A	H3G-8C
Supply voltage	AC		24 V, 100/110/120 V or 200/220/240 V; 50/60 Hz	
	DC		12 V or 24 V	
Operating voltage			85 to 110% of rated voltage	
Power consumption			3.4 VA at 200 VAC	
Timing functions			ON-delay	
Control output	Type	Time limit	SPDT	DPDT
	Max. load		7 A, 125/250 VAC (resistive load)	5 A, 125/250 VAC (resistive load)
	Min. load		100 mA, 5 VDC	100 mA, 5 VDC
Repeat accuracy			± 2% max.	
Mounting			Panel, track or surface	
Approvals	UL		Recognized, File Number E41515	
	CSA		Certified, File Number LR22310	
	Others		—	