

All the Timing Functions for Machine Control in One 1/16 DIN Digital Timer

OMRON

Omron's **H5CX Timers** provide the one solution to your timing applications with advantages that will simplify design, support and maintenance. Just one economical multi-function timer on the bill of material can support production runs of panels for different machines. If you are looking at single-function timers with ON-delay, twin timer, repeat cycle, interval or cumulative functions, Omron's H5CX is the right timer for each job. Use the external DIP switch to configure the timer for simple jobs, and front panel switches for more complex settings. The NEMA 4 front panel provides water resistance to IP66 without additional protection.



Bright Display

The large backlit negative LCD display is clearly legible in both bright and dim lighting conditions as well as at a wide angle both horizontally and vertically. The display consumes less current than conventional LED displays to help the overall machine use less energy and reduce the cost of ownership.



Easy Setup

A convenient, top-mounted DIP switch sets the H5CX for basic applications (except H5CX-L8 models):

- Time range
- Output mode
- Up/Down mode
- Input signal width

Additional settings use front panel switches for mode and set value.



Shallow Mounting Depth

The H5CX timer family includes ultra-compact models with mounting depths that are up to 36% shorter to reduce panel space. Both screw terminal and pin-terminal models are available.

Safety-Minded Design

The timer meets UL/CSA certification and carries the CE mark to conform with European and international requirements. The NEMA B300, Horsepower (HP) and IEC60947-5-1 meet higher output rating requirements. Finger-protected terminals are available on both screw terminal models and on the sockets of pin-terminal models.



Time's Up Display

In twin timer mode on screw terminal block models, you can set the present value display to change colors from red to green or vice versa to alert operators to changes in output status.



Solve it with the problem solvers.



Specifications

Timing functions	Twin timer (independent on and off settings) on H5CX-A models; Signal ON delay; Power ON delay; Repeat cycle (equal on and off settings, sustained or one-shot output); Signal OFF delay; Interval; Cumulative; On/Off-duty adjustable
Timing ranges	0.001 s to 9.999 s; 0.01 s to 99.99 s; 0.1 s to 999.9 s; 1 s to 9999 s; 0 min 01 s to 99 min 59 s; 0.1 min to 999.9 min; 1 min to 9999 min; 0 h 01 min to 99 h 59 min; 0.1 h to 999.9 h; 1 h to 9999 hr
Supply voltage	100 to 240 VAC, 50/60 Hz or 24 VAC/12 to 24 VDC, 20% p-p max. ripple
Operating voltage	85% to 110% VAC or 90% to 110% VDC
Power consumption	Approx. 6.2 VA at 264 VAC; 5.1 VA at 26.4 VAC; 2.4 W at 12 VDC
Display	Present value: 11.5 mm high characters; Set value: 6 mm high characters; 7-segment negative transmissive LCD
Input signals	Start, gate (H5CX-A) and reset; 1 or 20 ms input signal width
Control output	SPDT contact, rated 5 A, 250 VAC resistive load; NEMA B300 Pilot Duty, 1/4 HP, 5 A, 120 VAC resistive load; 1/3 HP, 5 A, 240 VAC resistive load; NPN open collector, 100 mA at 30 VDC; 1.5 VDC residual voltage
Dimensions	48 H x 48 W mm (1.89 x 1.89 inch), 1/16 DIN panel cutout; 100 mm D (3.94 inch) H5CX-A/AS; 64 mm D (2.52 inch) H5CX-AD/ASD; 86.9 mm D (3.42 inch) H5CX-A11/A11S; 78.1 mm D (3.07 inch) H5CX-A11D/A11SD/L8

Ordering Information

H5CX Timers

Output type	Supply voltage	Full functionality, Screw terminal	Full functionality, 11-pin socket	Without twin timer, 8-pin socket
5 A at 250 VAC SPDT contact output	100 to 240 VAC	H5CX-A	H5CX-A11	H5CX-L8
	12 to 24 VDC/24 VAC	H5CX-AD	H5CX-A11D	H5CX-L8D
100 mA NPN open collector transistor	100 to 240 VAC	H5CX-AS	H5CX-A11S	H5CX-L8S
	12 to 24 VDC/24 VAC	H5CX-ASD	H5CX-A11SD	H5CX-L8SD

Accessories

Description	Part number
Panel mounting adapter	Y92F-30
Sockets for track or flush mounting	8-pin, finger-safe terminals
	11-pin, finger-safe terminals
Sockets for panel mounting	8-pin
	11-pin
Finger-safe terminal cover for P3G sockets	Y92A-48G

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www.omron.com/oei

OMRON ELECTRONICS LLC
Industrial Automation Division
Schaumburg, IL

OMRON CANADA, INC.
Scarborough, Ontario

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