OMRON

Digital Counters & Tachometers

H7CX-□

H7CX-A-series
Multifunction Preset Counter
with Four Digits

H7CX-A-series
Multifunction Preset Counter
with Six Digits

H7CX-R-series
Digital Tachometer

Space-Saving 1/16 DIN Counters with
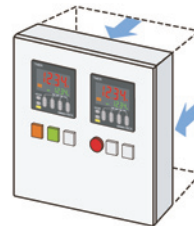All-in-One Functionality to Solve Most Counting and Positioning Applications

Small and Flexible

A shorter body enables mounting in thin control panels.
Models with terminal blocks for 24 VAC/12 to 24 VDC:
Only 59 mm depth, the shortest body for any industrial counter.

Models with terminal blocks for 100 to 240 VAC:
Only 78 mm depth, the shortest body for any industrial
counter that isolates the power supply and input circuits.

Model with Sockets: 63.7 mm (case dimension)

The above claims apply to timers with a maximum ambient temperature of 55°C.
According to Omron investigations June 2009.

Waterproof, Dust-proof Front Panel (UL508 Type 4X and IP66)

Worry-free
application is
possible in locations
subject to water.

Expanded Tachometer Functions

1. One-input measurement
   Measurement operation with one input. Select the HI-LO,
   AREA, HI-HI, or LO-LO output mode.
2. Independent Measurement for Two Inputs
   Measurement operation with two independent inputs.

3. Differential Input for Two Inputs
   Measuring the difference between two inputs (CP1-CP2).
4. Absolute Ratio for Two Inputs
   Measuring the ratio between two inputs (CP1/CP2).
5. Error Ratio between Two Inputs
   Measuring the ratio between two inputs ((CP1-CP2)/CP2).

Safe and Reliable

Power supply circuit and input circuits are
isolated inside the Counter/Tachometer for
100-240 VAC models. You no longer have
to take steps to prevent unwanted circuit paths.

Input

Isolated

Upper limit for the set value helps prevent
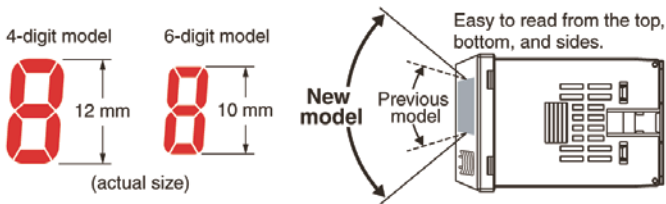incorrect settings.

Service Life Notification

The output counter counts the number of times the output turns ON (alarms can be displayed and the count can be monitored
in increments of 1,000 operations). This counter is useful in managing the service life of the Counter/Tachometer or the load.

Easy and Smart

The larger characters and wider viewing angle join a bright display for easy reading even in well-lit locations.

Orange Added to Switchable Display Colors
Switchable display colors readily show the output status.

Using green when Output is OFF   Using orange when Output is ON

Green - Orange
Red - Green
Orange - Red, Etc.

Display colors can be switched only on models with terminal blocks.

Ordering

Type	Classification	Configuration	External connections	Settings	Display Digits	Output	Supply Voltage	Models
H7CX-A series	Preset counter	1-stage preset counter Total and preset counter	11-pin socket	1-stage	4 digits	Contact output (SPDT)	100 to 240 VAC	**H7CX-A114-N**
							12 to 24 VDC/24 VAC	**H7CX-A114D1-N**
					6 digits		100 to 240 VAC	**H7CX-A11-N**
							12 to 24 VDC/24 VAC	**H7CX-A11D1-N**
			Screw terminals		4 digits		100 to 240 VAC	**H7CX-A4-N**
							12 to 24 VDC	**H7CX-A4D-N**
					6 digits		100 to 240 VAC	**H7CX-A-N**
							12 to 24 VDC	**H7CX-AD-N**
		1-stage preset counter 2-stage preset counter Total and preset counter Batch counter Dual counter Twin counter		2-stage	4 digits	Contact output (SPST + SPDT)	100 to 240 VAC	**H7CX-A4W-N**
	Preset counter/ Tachometer	1-stage preset counter 2-stage preset counter Total and preset counter Batch counter Dual counter Twin counter Tachometer			6 digits	Contact output (SPST + SPDT)	100 to 240 VAC	**H7CX-AW-N**
							12 to 24 VDC/24 VAC	**H7CX-AWD1-N**
						Contact output (SPDT)+ Transistor output (SPST)	100 to 240 VAC	**H7CX-AU-N**
							12 to 24 VDC/ 24 VAC	**H7CX-AUD1-N**
H7CX-R series	Tachometer	Tachometer	11-pin socket	1-stage (1 input and output)		Contact output (SPDT)	100 to 240 VAC	**H7CX-R11-N**
							12 to 24 VDC/ 24 VAC	**H7CX-R11D1-N**
				1-stage (2 inputs and outputs)		Contact output (SPDT + SPST)	100 to 240 VAC	**H7CX-R11W-N**
							12 to 24 VDC/ 24 VAC	**H7CX-R11WD1-N**

Note: Additional models with transistor output available. Please see datasheet for more details.

Accessories (Order Separately)

Front Panels

Color	Models	Applicable Counters
Light gray (5Y7/1)	**Y92P-CXC4G**	4-digit Counter
White (5Y9.2 /0.5)	**Y92P-CXC4S**	
Black (N1.5)	**Y92P-CXC4B**	
Light gray (5Y7/1)	**Y92P-CXC6G**	6-digit Counter
White (5Y9.2 /0.5)	**Y92P-CXC6S**	
Black (N1.5)	**Y92P-CXC6B**	

Note: Black front panel is a replacement part.

Light gray
(sold separately)

White
(sold separately)

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