

# 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

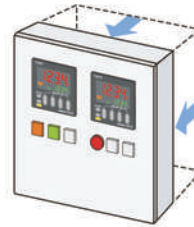
### Small and Flexible

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.



Upper limit for the set value helps prevent incorrect settings.

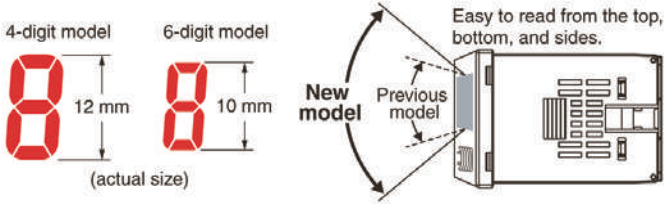


### Service Life Notification

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	<b>H7CX-A114-N</b>	
					6 digits		12 to 24 VDC/24 VAC	<b>H7CX-A114D1-N</b>	
					4 digits		100 to 240 VAC	<b>H7CX-A11-N</b>	
					6 digits		12 to 24 VDC/24 VAC	<b>H7CX-A11D1-N</b>	
					4 digits		100 to 240 VAC	<b>H7CX-A4-N</b>	
	Preset counter/ Tachometer	1-stage preset counter 2-stage preset counter Total and preset counter Batch counter Dual counter Twin counter	Screw terminals	2-stage	4 digits	Contact output (SPST + SPDT)	100 to 240 VAC	<b>H7CX-A4W-N</b>	
					6 digits		100 to 240 VAC	<b>H7CX-AW-N</b>	
					6 digits		12 to 24 VDC/24 VAC	<b>H7CX-AWD1-N</b>	
					6 digits		Contact output (SPDT)+ Transistor output (SPST)	100 to 240 VAC	<b>H7CX-AU-N</b>
					6 digits		Contact output (SPDT)+ Transistor output (SPST)	12 to 24 VDC/ 24 VAC	<b>H7CX-AUD1-N</b>
H7CX-R series	Tachometer	Tachometer	11-pin socket	1-stage (1 input and output)	Contact output (SPDT)	100 to 240 VAC	<b>H7CX-R11-N</b>		
				1-stage (2 inputs and outputs)		12 to 24 VDC/ 24 VAC	<b>H7CX-R11D1-N</b>		
				1-stage (1 input and output)		100 to 240 VAC	<b>H7CX-R11W-N</b>		
				1-stage (2 inputs and outputs)		12 to 24 VDC/ 24 VAC	<b>H7CX-R11WD1-N</b>		

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)	<b>Y92P-CXC4G</b>	4-digit Counter
White (5Y9.2/0.5)	<b>Y92P-CXC4S</b>	
Black (N1.5)	<b>Y92P-CXC4B</b>	
Light gray (5Y7/1)	<b>Y92P-CXC6G</b>	6-digit Counter
White (5Y9.2/0.5)	<b>Y92P-CXC6S</b>	
Black (N1.5)	<b>Y92P-CXC6B</b>	

Note: Black front panel is a replacement part.



Light gray  
(sold separately)



White  
(sold separately)

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Note: Specifications are subject to change.

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