Model Number Legend (Not all possible combinations of functions are available.)

H7CC-□□□□□
1 2 3 4 5

1. Type

Symbol	Meaning
A	Standard type
R	Tachometer

2. External connections

Symbol	Meaning
None	Screw terminals
8	8-pin socket
11	11-pin socket

3. Settings

Symbol	Meaning
None	1-stage setting
W	2-stage setting ✻
U	1-stage contact+1-stage Solid state

✻ The H7CC-R11W□ is a 1-stage (2 inputs and outputs) rather than a 2-stage counter.

4. Output type

Symbol	Meaning
None	Contact output
S	Transistor output

5. Supply voltage

Symbol	Meaning
None	100 to 240 VAC at 50/60 Hz
D	24 VAC 50/60 Hz/12-48 VDC

Ordering Information

List of Models

Type	Classification	Configuration	External connections	Settings	Display digits	Outputs	Power supply voltage	Model
H7CC-A Series	Preset counter	• 1-stage preset counter • Total and preset counter	8-pin socket	1-stage	6 digits	Contact output (SPST)	100 to 240 VAC	**H7CC-A8**
							24 VAC/ 12 to 48 VDC	**H7CC-A8D**
			11-pin socket			Contact output (SPDT)	100 to 240 VAC	**H7CC-A11**
						Transistor output (SPST)		**H7CC-A11S**
						Contact output (SPDT)	24 VAC/ 12 to 48 VDC	**H7CC-A11D**
						Transistor output (SPST)		**H7CC-A11SD**
			Screw terminals			Contact output (SPDT)	100 to 240 VAC	**H7CC-A**
						Transistor output (SPST)		**H7CC-AS**
						Contact output (SPDT)	24 VAC/ 12 to 48 VDC	**H7CC-AD**
						Transistor output (SPST)		**H7CC-ASD**
	Preset counter/ Tachometer	• 1-stage preset counter • 2-stage preset counter • Total and preset counter • Batch counter • Dual counter • Twin counter • Tachometer		2-stage		Contact output (SPST+SPDT)	100 to 240 VAC	**H7CC-AW**
						Transistor output (DSPT)		**H7CC-AWS**
						Contact output (SPST+SPDT)	24 VAC/ 12 to 48 VDC	**H7CC-AWD**
						Transistor output (DSPT)		**H7CC-AWSD**
						Contact output (SPDT) + Transistor output (SPST)	100 to 240 VAC	**H7CC-AU**
							24 VAC/ 12 to 48 VDC	**H7CC-AUD**
H7CC-R Series	Tachometer	• Tachometer	11-pin socket	1-stage (1 input and output)		Contact output (SPDT)	100 to 240 VAC	**H7CC-R11**
							24 VAC/ 12 to 48 VDC	**H7CC-R11D**
				1 stage (2 inputs and outputs)		Contact output (SPDT+SPST)	100 to 240 VAC	**H7CC-R11W**
							24 VAC/ 12 to 48 VDC	**H7CC-R11WD**

H7CC-A□ Digital Counter

- Equipped with a replacement time notification function.
- The white-color display further improves visibility, and the color universal design is used. The Up/Down Keys make it easier to use the Counter.
- Compatible with the ratings, characteristics, and functionality of the H7CX-N.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Specifications

Ratings

Item		Model H7CC-A8/-A11□	H7CC-A□	H7CC-AW□/AU□
Classification		Preset counter		Preset counter/ tachometer
Configuration		1-stage preset counter, 1-stage preset counter with total counter (selectable) ✻1		1-stage/2-stage preset counter, total and preset counter ✻1, batch counter, dual counter, twin counter, and tachometer (selectable)
Ratings	Power supply voltage ✻2	• 100 to 240 VAC, 50/60 Hz • 24 VAC, 50/60 Hz or 12 to 48 VDC		
	Operating voltage fluctuation range	85% to 110% of rated supply voltage (12 to 48 VDC: 90% to 110%)		
	Power consumption	Approx. 6.8 VA at 100 to 240 VAC, Approx. 5.5 VA/3.3 W at 24 VAC/12 to 48 VDC,		
Mounting method		Flush mounting or surface mounting	Flush mounting	
External connections		8-pin/ 11-pin socket	Screw terminals	
Degree of protection		Compliant with IEC IP66 for panel surface only and when Y92S-P6 Waterproof Packing is used Certified for UL Type 1		
Input signals		CP1, CP2, reset, and total reset ✻4		CP1, CP2, reset 1, and reset 2
Counter	Maximum counting speed	30 Hz (minimum pulse width: 16.7 ms) or 10 kHz (minimum pulse width: 0.05 ms) (selectable) (ON/OFF ratio 1:1) ✻Common setting for CP1 and CP2		
	Input mode	Increment (UP), decrement (DOWN), increment/decrement (UP/DOWN A (command input), UP/DOWN B (individual inputs), or UP/DOWN C (quadrature inputs)), UP/DOWN D (command input), UP/DOWN E (individual inputs), UP/DOWN E (quadrature inputs)		
	Output mode	N, F, C, R, K-1, P, Q, A, K-2, D, and L.		N, F, C, R, K-1, P, Q, A, K-2, D, L, and H.
	One-shot out put time	0.01 to 99.99 s		
	Reset system	External (minimum reset signal width: 1 ms or 20 ms, selectable), manual, and automatic reset (internal according to C, R, P, and Q mode operation)		
Tachometer		Refer to the separate table for *tachometer function ratings*.		
Prescaling function		Yes (0.001 to 99.999)		
Decimal point adjustment		Yes (right most 3 digits)		
Sensor waiting time		290 ms max. (Control output is turned OFF and no input is accepted during sensor waiting time.)		
Input method		No-voltage (NPN) input/voltage (PNP) input (switchable) No-voltage inputs: ON impedance: 1 kΩ max. (Leakage current: 12 mA at 0 Ω) ON residual voltage: 3 V max. OFF impedance: 100 kΩ min. Voltage input: High (logic) level: 4.5 to 30 VDC Low (logic) level: 0 to 2 VDC (Input resistance: approx. 4.7 kΩ)		
External power supply		12 VDC (±10%), 100 mA (except for H7CC-A8□ models) Refer to *Precautions for Correct Use* on page 61 for details.		
Control output		• Contact output: 3 A at 250 VAC/30 VDC, resistive load (cosϕ=1), Minimum applied load: 10 mA at 5 VDC (failure level: P, reference value) • Transistor output: NPN open collector, 100 mA at 30 VDC, Residual voltage: 1.5 VDC max. (approx. 1 V), Leakage current: 0.1 mA max.		
Display ✻3		7-segment, negative transmissive LCD Character height Count value: 10 mm (white) Set value: 6 mm (green)		
Digits		6 digits -99999 to 999999 (-5 digits to +6 digits)		6 digits -99999 to 999999 (-5 digits to +6 digits), tachometer: 0 to 999999
Memory backup		Non-volatile memory (overwrites: 100,000 times min.) that can store data for 10 years min.		
Operating temperature range		-10 to 55°C (-10 to 50°C if Counter/Tachometers are mounted side by side) (with no icing or condensation)		
Storage temperature range		-25 to 70°C (with no icing or condensation)		
Operating humidity range		25% to 85%		
Case color		Black (N1.5)		
Attachments		---	Flush mounting adapter, waterproof packing, terminal cover	

✻1. 1-stage preset counter and total counter functionality.
✻2. Do not use the output from an inverter as the power supply.The ripple must be 20% maximum for DC power.
✻3. The display is lit only when the power is ON. Nothing is displayed when power is OFF.
✻4. Only reset input is performed in the H7CC-A8□, and the total count is also reset simultaneously.