

Solid-state Timer

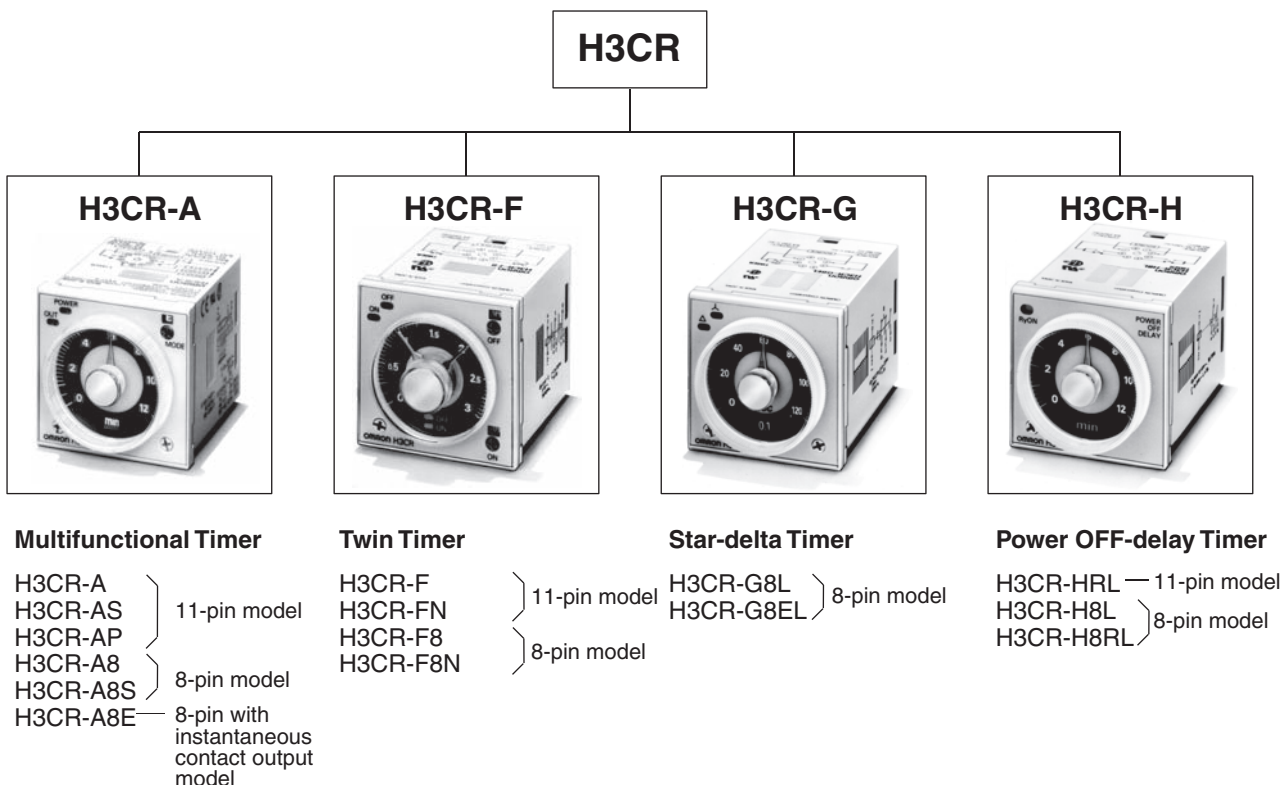
H3CR

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments. Refer to Warranty and Application Considerations (page 52), and Safety Precautions (page 22, 44, 51).

DIN 48 × 48-mm Multifunctional Timer Series

- Conforms to EN61812-1 and IEC60664-1 4 kV/2 for Low Voltage, and EMC Directives.
- Approved by UL and CSA.
- Lloyds/NK approvals.
- Six-language instruction manual provided.

■ Broad Line-up of H3CR Series



Note: H3CR-AS, H3CR-A8S: Transistor output models

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Common to ALL Timers

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Multiple Operating Modes and Multiple Time Ranges. DIN 48 x 48-mm Multifunctional Timer.

- A wide AC/DC power supply range greatly reduces the number of timer models kept in stock.
- A wide range of applications with multiple operating modes, eight modes for 11-pin models and five modes for 8-pin models.
- Ecological design with reduced current consumption.
- Easy sequence checking with instantaneous outputs for a zero set value.
- Length of 75 mm or less when panel-mounted with a P3G-08 Socket (H3CR-A8E, 100 to 240 VAC, 100 to 125 VDC)
- PNP input models available.
- Standards: UL, CSA, NK, LR, CCC, EN 61812-1, and CE Marking.



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

Model Number Structure

■ Model Number Legend

Note: This model number legend includes combinations that are not available. Before ordering, please check the *List of Models* on page 3 for availability.

H3CR-A -
1 2 3 4 5

1. Number of Pins

- None: 11-pin models
- 8: 8-pin models

2. Input Type for 11-pin Models

- None: No-voltage input (NPN type)
- P: Voltage input (PNP type)

3. Output

- None: Relay output (DPDT)
- S: Transistor output (NPN/PNP universal use)
- E: Relay output (SPDT) with instantaneous relay output (SPDT)

4. Suffix

- 301: Double time scale (range) models (0.1 s to 600 h)

5. Supply Voltage

- 100-240AC/100-125DC: 100 to 240 VAC/100 to 125 VDC
- 24-48AC/12-48DC: 24 to 48 VAC/12 to 48 VDC
- 24-48AC/DC: 24 to 48 VAC/VDC (Only for H3CR-A8E)

Ordering Information

List of Models

Note: 1. Specify both the model number and supply voltage when ordering.

Example: H3CR-A 100-240AC/100-125DC

Supply voltage

2. The operating modes are as follows

A: ON-delay
 B: Flicker OFF start
 B2: Flicker ON start
 C: Signal ON/OFF-delay
 D: Signal OFF-delay
 E: Interval
 G: Signal ON/OFF-delay
 J: One-shot

11-pin Models

Output	Supply voltage	Input type	Time range	Operating mode (See note 2)	Model (See note 1.)				
Contact	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC	No-voltage input	0.05 s to 300 h	Eight multi-modes: A, B, B2, C, D, E, G, J	H3CR-A				
	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC								
	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC	Voltage input			0.1 s to 600 h	Eight multi-modes: A, B, B2, C, D, E, G, J	H3CR-AP		
	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC								
	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC	No-voltage input					0.05 s to 300 h	Eight multi-modes: A, B, B2, C, D, E, G, J	H3CR-A-301
	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC								
24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC	Transistor (Photocoupler)	0.05 s to 300 h	Eight multi-modes: A, B, B2, C, D, E, G, J	H3CR-AS					
24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC									

8-pin Models

Output	Supply voltage	Input type	Time range	Operating mode (See note 2)	Model (See note 1.)	
Contact	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC	No-input available	0.05 s to 300 h	Five multi-modes: A, B, B2, E, J (Power supply start)	H3CR-A8	
	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC		0.1 s to 600 h		H3CR-A8-301	
	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC					
	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC					
Transistor (Photocoupler)	24 to 48 VAC (50/60 Hz)/ 12 to 48 VDC	No-input available	0.05 s to 300 h	Five multi-modes: A, B, B2, E, J (Power supply start)	H3CR-A8S	
Time-limit contact and instantaneous contact	100 to 240 VAC (50/60 Hz)/ 100 to 125 VDC		0.05 s to 300 h		Five multi-modes: A, B, B2, E, J (Power supply start)	H3CR-A8E
	24 to 48 VAC/VDC (50/60 Hz)					