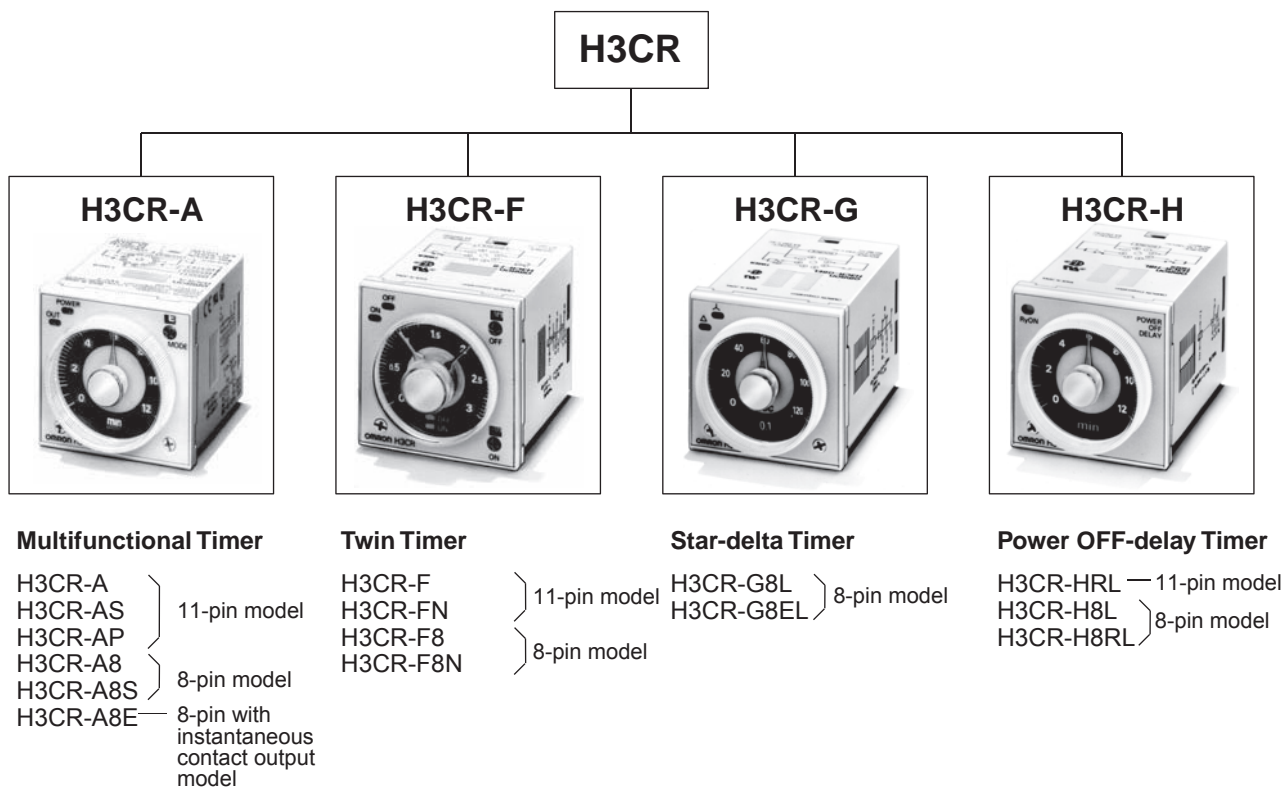# OMRON

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

| H3CR-A | H3CR-F | H3CR-G | H3CR-H |

Multifunctional Timer

H3CR-A
H3CR-AS   } 11-pin model
H3CR-AP
H3CR-A8   } 8-pin model
H3CR-A8S
H3CR-A8E — 8-pin with instantaneous contact output model

Twin Timer

H3CR-F
H3CR-FN   } 11-pin model
H3CR-F8   } 8-pin model
H3CR-F8N

Star-delta Timer

H3CR-G8L   } 8-pin model
H3CR-G8EL

Power OFF-delay Timer

H3CR-HRL — 11-pin model
H3CR-H8L   } 8-pin model
H3CR-H8RL

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

Contents

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)

Solid-state Twin Timers
H3CR-F

DIN 48 × 48-mm Twin Timers

- Wide power supply ranges of High Voltage 100 to 240 VAC/100 to 125 VDC and Low Voltage 24 to 48 VAC/12 to 48 VDC.
- ON- and OFF-times can be set independently and so combinations of long ON- or OFF-time and short OFF- or ON-time settings are possible.
- Twenty-four time ranges from 0.05 s to 300 h depending on the model to be used.
- Models with a flicker ON start or flicker OFF start are available.
- Easy sequence checks through instantaneous outputs for a zero set value at any time range.
- Length, when panel-mounted with a Socket, of 80 mm or less.
- 11-pin and 8-pin models are available.

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

H3CR - F ☐ ☐ - ☐ ☐
　　　　　1　2　3　　4　5

1. Classification
F:　　Twin timers

2. Configuration
None:　11-pin socket
8:　　8-pin socket

3. Twin Timer Mode
None:　Flicker OFF start
N:　　Flicker ON start

4. Time Range
None:　0.05 s to 300 h models

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

Note: When your order, specify the power supply voltage.

Ordering Information

■ List of Models

Operating modes	Supply voltage	0.05 s to 300 h models	
		11-pin models	8-pin models
Flicker OFF start	100 to 240 VAC/100 to 125 VDC	H3CR-F 100-240AC/100-125DC	H3CR-F8 100-240AC/100-125DC
	24 to 48 VAC/12 to 48 VDC	H3CR-F 24-48AC/12-48DC	H3CR-F8 24-48AC/12-48DC
Flicker ON start	100 to 240 VAC/100 to 125 VDC	H3CR-FN 100-240AC/100-125DC	H3CR-F8N 100-240AC/100-125DC
	24 to 48 VAC/12 to 48 VDC	H3CR-FN 24-48AC/12-48DC	H3CR-F8N 24-48AC/12-48DC

Note: Specify both the model number and supply voltage when ordering.
　　　Example: H3CR-F 100-240AC/100-125DC
　　　　　　　　　　　　　└──────── Supply voltage