

**NO:** CT-019  
**DATE:** May 2014

**PRODUCT:** H7AN, H7CN Counters, H5CN Timers  
**TYPE:** Partial Discontinuation Notice

## Select Models of H7AN and H7CN Counters and H5CN Timers to be Discontinued March 2015

**Last order date:** March 2015

Note: Date is subject to change based on raw materials and components availability at the factory.

Legacy digital counters (1/4 DIN size H7AN and 1/16 DIN size H7CN) and timers (1/16 DIN size H5CN) will be streamlined to focus on models with steady sales: 100-240 VAC models and those with backup power for memory protection.




### Affected Parts

Product discontinuation	Recommended replacement
H7AN-E4D DC12-24	H7AN-E4D AC100-240
H7AN-E4DM DC12-24	H7AN-E4DM AC100-240
H7AN-ET4 AC100-240	H7AN-ET4M AC100-240
H7AN-ET4 DC12-24	H7AN-ET4M AC100-240
H7AN-ET4M DC12-24	H7AN-ET4M AC100-240
H7AN-R6D DC12-24	H7AN-R6D AC100-240
H7AN-RT6 DC12-24	H7AN-RT6 AC100-240
H7AN-RT8 AC100-240	H7AN-RT8M AC100-240
H7AN-RT8 DC12-24	H7AN-RT8M DC12-24
H7AN-T4 DC12-24	H7AN-T4 AC100-240
H7AN-W4D DC12-24	H7AN-W4D AC100-240
H7AN-WE4D DC12-24	H7AN-WE4D AC100-240
H7AN-WE4DM DC12-24	H7AN-WE4DM AC100-240
H7CN-BHN DC12-48	H7CN-BHN AC100-240
H7CN-YHNS AC100-240	H7CN-YHNS DC12-48
H5CN-XBC AC100-240	H5CN-XBN AC100-240
H5CN-XBNS DC12-48	H5CN-XANS DC12-48
H5CN-XCNM DC24	H5CN-XCNM AC100-240
H5CN-XDNM DC24	H5CN-XDNM AC100-240
H5CN-YCNM AC100-240	H5CN-YCN AC100-240

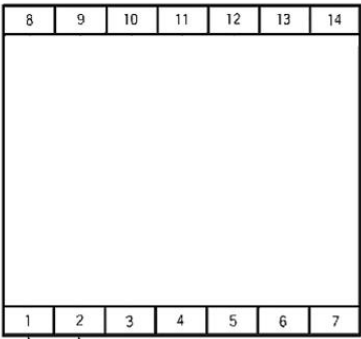
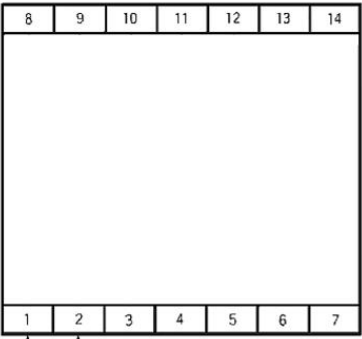
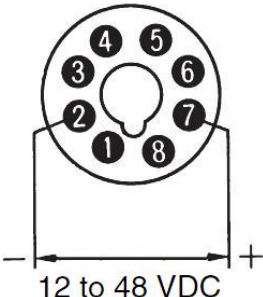
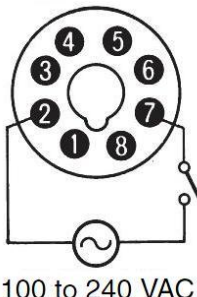
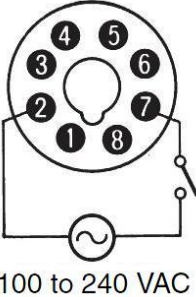
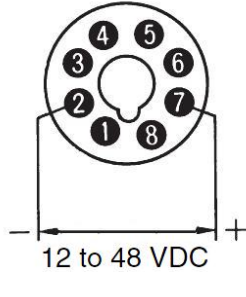
## Caution on Applying Replacement Models

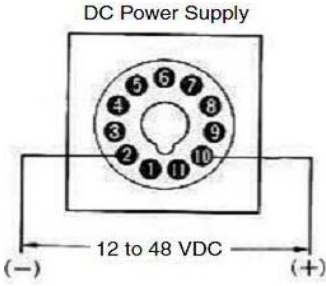
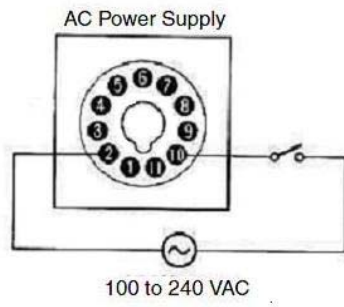
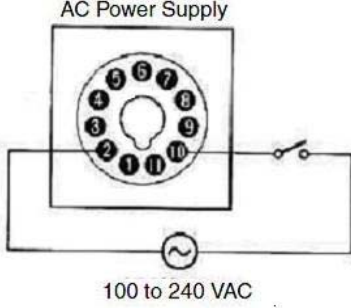
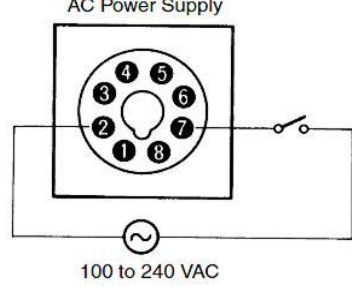
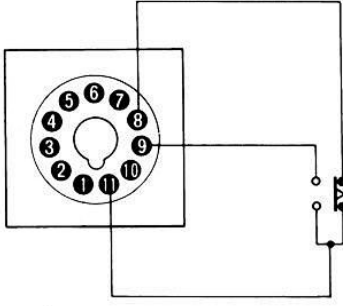
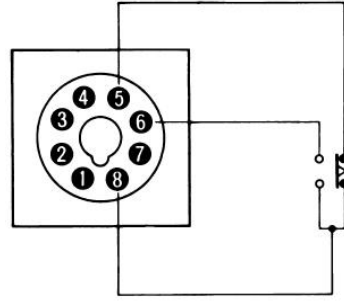
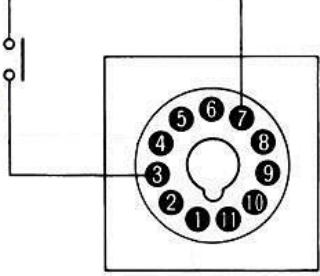
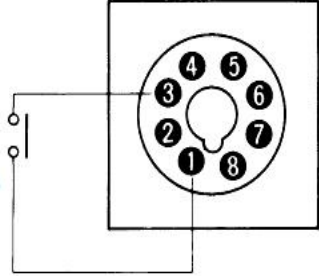
- When replacing a part of H7AN series with DC12-24V specification to the recommended replacement, supply voltage is changed to AC100-240V.
- When replacing H7AN-ET4 and H7AN-RT8 to the recommended replacement, specification is changed to the one with backup power of memory protection.
- When replacing DC12-48V specification for H7CN-BHN to the recommended replacement, supply voltage is changed to AC100-240V.
- When replacing AC100-240V specification for H7CN-YHNS to the recommended replacement, supply voltage is changed to DC12-48V. · When replacing H5CN-XBC to the recommended replacement, operating mode is changed.
- When replacing H5CN-XBNS to the recommended replacement, rated time is changed.
- When replacing H5CN-XCNM and H5CN-XDNM to the recommended replacement, supply voltage is changed to AC100-240V.
- When replacing H5CN-YCNM to the recommended replacement, backup power of memory protection is not available.
- When replacing H5CN-YCNM to the recommended replacement, applicable socket is changed.

## Body Color

Product discontinuation	Recommended replacement
<p><b>H7AN / H7CN / H5CN</b> Light gray (Munsell 5Y7/1)</p>  <p style="text-align: center;"> <span data-bbox="235 1239 308 1270">H7AN</span> <span data-bbox="511 1239 584 1270">H7CN</span> <span data-bbox="803 1239 876 1270">H5CN</span> </p>	<p>Body color of product discontinuation and recommended replacement are the same.</p>

# Wiring Diagrams

<b>Product discontinuation</b> <b>Model H7AN / H7CN</b>	<b>Recommended replacement</b> <b>Model H7AN / H7CN</b>
<p> <b>H7AN-E4D DC12-24 / H7AN-E4DM DC12-24 /</b>  <b>H7AN-ET4 DC12-24 / H7AN-ET4M DC12-24 /</b>  <b>H7AN-R6D DC12-24 / H7AN-RT6 DC12-24 /</b>  <b>H7AN-RT8 DC12-24 / H7AN-T4 DC12-24 /</b>  <b>H7AN-W4D DC12-24 / H7AN-WE4D DC12-24 /</b>  <b>H7AN-WE4DM DC12-24</b> </p> <p>• Connection of Power Supply</p>  <p>DC power supply input</p> <p>Polarity for DC powersupply Terminal 1→ (-) Terminal 2→ (+)</p>	<p> <b>H7AN-E4D AC100-240 / H7AN-E4DM AC100-240 /</b>  <b>H7AN-ET4M AC100-240 / H7AN-R6D AC100-240 /</b>  <b>H7AN-RT6 AC100-240 / H7AN-T4 AC100-240 /</b>  <b>H7AN-W4D AC100-240 / H7AN-WE4D AC100-240 /</b>  <b>H7AN-WE4DM AC100-240</b> </p> <p>• Connection of Power Supply</p>  <p>AC power supply input</p>
<p><b>H7CN-BHN DC12-48</b></p> <p>• Connection of Power Supply</p> <p><b>DC Power Supply</b></p>  <p>12 to 48 VDC</p>	<p><b>H7CN-BHN AC100-240</b></p> <p>• Connection of Power Supply</p> <p><b>AC Power Supply</b></p>  <p>100 to 240 VAC</p>
<p><b>H7CN-YHNS AC100-240</b></p> <p>• Connection of Power Supply</p> <p><b>AC Power Supply</b></p>  <p>100 to 240 VAC</p>	<p><b>H7CN-YHNS DC12-48</b></p> <p>• Connection of Power Supply</p> <p><b>DC Power Supply</b></p>  <p>12 to 48 VDC</p>

<p align="center"><b>Product discontinuation Model H5CN</b></p>	<p align="center"><b>Recommended replacement Model H5CN</b></p>
<p><b>H5CN-XCNM DC24 / H5CN-XDNM DC24</b>            Connect the timer so that the required supply voltage can be applied across terminals ② and ⑦. (Make sure that the polarity of the DC power supply is correct.)</p> <p align="center">DC Power Supply</p> 	<p><b>H5CN-XCNM AC100-240 / H5CN-XDNM AC100-240</b>            Connect the timer so that the required supply voltage can be applied across terminals ② and ⑦.</p> <p align="center">AC Power Supply</p> 
<p><b>H5CN-YCNM AC100-240</b></p> <ul style="list-style-type: none"> <li>• Connection of Power Supply</li> </ul> <p align="center">AC Power Supply</p> 	<p><b>H5CN-YCN AC100-240</b>            Use the socket P2CF-08(-E) and P3G-08 PIN type is changed to 8-pin</p> <ul style="list-style-type: none"> <li>• Connection of Power Supply</li> </ul> <p align="center">AC Power Supply</p> 
<p><b>H5CN-YCNM AC100-240</b></p> <ul style="list-style-type: none"> <li>• Connection of Load Circuit</li> </ul> 	<p><b>H5CN-YCN AC100-240</b></p> <ul style="list-style-type: none"> <li>• Connection of Load Circuit</li> </ul> 
<ul style="list-style-type: none"> <li>• Connection of Gate Input</li> </ul> <p>Reset input contact (Timer resets when contact is made.)</p> 	<ul style="list-style-type: none"> <li>• Connection of Gate Input</li> </ul> <p>Reset input contact (Timer resets when contact is made.)</p> 

## Characteristics

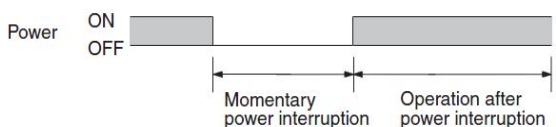
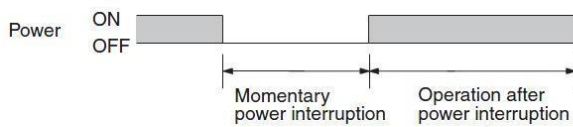
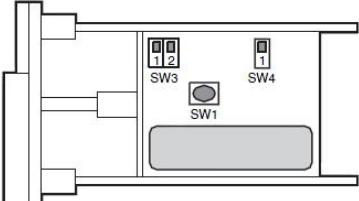






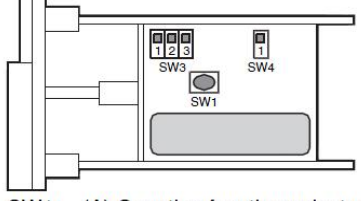








Item	Product discontinuation Model H7AN	Recommended replacement Model H7AN
		H7AN-E4D DC12-24 / H7AN-E4DM DC12-24 / H7AN-ET4 DC12-24 / H7AN-ET4M DC12-24 / H7AN-R6D DC12-24 / H7AN-RT6 DC12-24 / H7AN-RT8 DC12-24 / H7AN-T4 DC12-24 / H7AN-W4D DC12-24 / H7AN-WE4D DC12-24 / H7AN-WE4DM DC12-24
<b>Supply voltage</b>	DC12~24V (permissible ripple: 20% max.)	AC100~240V, 50/60 Hz

Item	Product discontinuation Model H7CN	Recommended replacement Model H7CN
		H7CN-BHN DC12-48
<b>Supply voltage</b>	DC12~48V (permissible ripple: 20% max.)	AC100~240V, 50/60 Hz (common use)

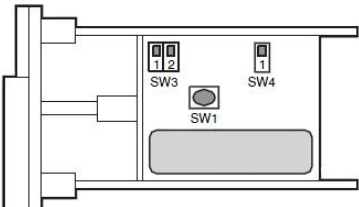






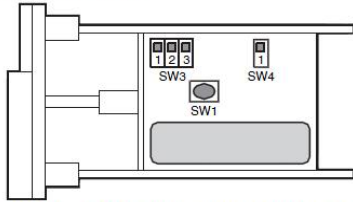








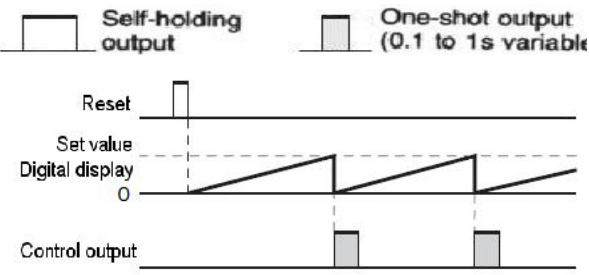
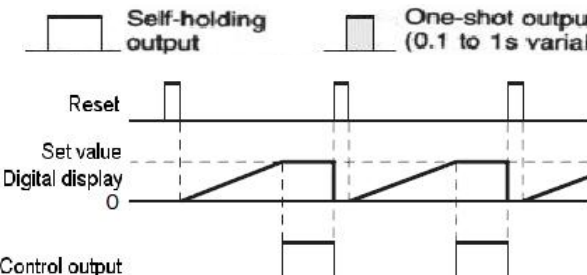
Item	Product discontinuation Model H7CN	Recommended replacement Model H7CN
		H7CN-YHNS AC100-240
<b>Supply voltage</b>	AC100~240V, 50/60 Hz (common use)	DC12~48V (permissible ripple: 20% max.)

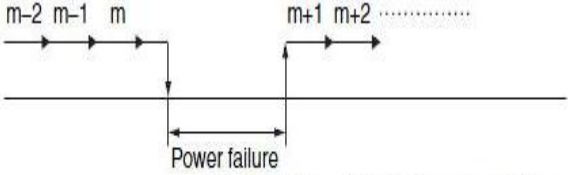
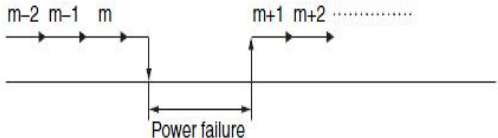
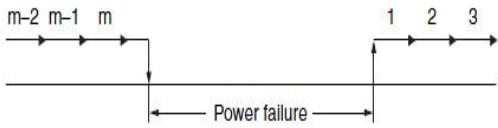
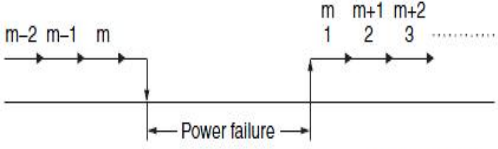
Item	Product discontinuation Model H5CN	Recommended replacement Model H5CN
		H5CN-XCNM DC24 / H5CN-XDNM DC24
<b>Supply voltage</b>	DC12~48V (permissible ripple: 20% max.)	AC100~240V, 50/60Hz

# Operation Ratings

Product discontinuation	Recommended replacement						
<p><b>H7AN-ET4 AC100-240 / H7AN-ET4 DC12-24 / H7AN-RT8 AC100-240 / H7AN-RT8 DC12-24</b></p> <p>When power fails, it operates as shown in the following figure.</p>  <table border="1" data-bbox="110 541 771 661"> <tr> <td>0.5 s or more</td> <td>All reset</td> </tr> <tr> <td>0.01 s or less</td> <td>The counter continues normal operation same as before the power failure.</td> </tr> <tr> <td>More than 0.01 and less than 0.5 s</td> <td>The counter may reset or continue operating.</td> </tr> </table>	0.5 s or more	All reset	0.01 s or less	The counter continues normal operation same as before the power failure.	More than 0.01 and less than 0.5 s	The counter may reset or continue operating.	<p><b>H7AN-ET4M AC100-240 / H7AN-RT8M AC100-240 / H7AN-RT8M DC12-24</b></p> <p>When power fails, it operates as shown in the following figure.</p>  <div data-bbox="1039 499 1437 562" style="border: 1px solid black; padding: 5px; text-align: center;"> <p>The counter continues normal operation same as before the power failure.</p> </div> <p>However, if selecting “no memory backup” in specification selection switches for backup power of memory protection, the operation is performed same as product discontinuation.</p>
0.5 s or more	All reset						
0.01 s or less	The counter continues normal operation same as before the power failure.						
More than 0.01 and less than 0.5 s	The counter may reset or continue operating.						
<p><b>H7AN-ET4 AC100-240 / H7AN-ET4 DC12-24</b></p> <ul style="list-style-type: none"> <li>Arrangement and function of specification selection switches</li> </ul>  <p>SW1: (A) Counting function selector</p> <p>SW3-1: CP1 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-2: CP2 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW4: Manual reset selector   Manual reset possible (See note 1.)   Manual reset not possible</p> <p>Note1: These settings are the defaults for the specification selection switches.</p>	<p><b>H7AN-ET4M AC100-240</b></p> <ul style="list-style-type: none"> <li>Arrangement and function of specification selection switches</li> </ul>  <p>SW1: (A) Counting function selector</p> <p>SW3-1: CP1 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-2: CP2 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-3: Power failure memory backup   Memory backup (See note 1.)   No memory backup</p> <p>SW4: Manual reset selector   Manual reset possible (See note 1.)   Manual reset not possible</p> <p>Note1: These settings are the defaults for the specification selection switches.</p>						



Product discontinuation	Recommended replacement
<p><b>H7AN-ET4 AC100-240 / H7AN-ET4 DC12-24</b></p> <ul style="list-style-type: none"> <li>Arrangement and function of specification selection switches</li> </ul>  <p>SW1: (A) Counting function selector</p> <p>SW3-1: CP1 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-2: CP2 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW4: Manual reset selector   Manual reset possible (See note 1.)   Manual reset not possible</p> <p>Note1: These settings are the defaults for the specification selection switches.</p>	<p><b>H7AN-ET4M AC100-240</b></p> <ul style="list-style-type: none"> <li>Arrangement and function of specification selection switches</li> </ul>  <p>SW1: (A) Counting function selector</p> <p>SW3-1: CP1 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-2: CP2 maximum counting speed selector   30 Hz (See note 1.)   5 kHz</p> <p>SW3-3: Power failure memory backup   Memory backup (See note 1.)   No memory backup</p> <p>SW4: Manual reset selector   Manual reset possible (See note 1.)   Manual reset not possible</p> <p>Note1: These settings are the defaults for the specification selection switches.</p>
<p><b>H5CN-XBC AC100-240</b></p> <ul style="list-style-type: none"> <li>Operating mode</li> </ul>  <ul style="list-style-type: none"> <li>Digital display returns to the initial setting once the set time is up.</li> <li>The output signal is generated repeatedly during the one-shot time.</li> </ul>	<p><b>H5CN-XBN AC100-240</b></p> <ul style="list-style-type: none"> <li>Operating mode</li> </ul>  <ul style="list-style-type: none"> <li>The control output and digital display after the set time is up are held until a reset input is applied.</li> </ul>
<p><b>H5CN-XBNS DC12-48</b></p> <ul style="list-style-type: none"> <li>Setting of operating time 0.1s ~ 999.9s</li> </ul>	<p><b>H5CN-XANS DC12-48</b></p> <ul style="list-style-type: none"> <li>Setting of operating time 0.01s ~ 99.99s</li> </ul>

Product discontinuation	Recommended replacement
<p><b>H5CN-YCNM AC100-240</b>  The timer status during momentary power failures is shown as follows.</p>  <p>*Restarts from status before power failure.</p>	<p><b>H5CN-YCN AC100-240</b>  The timer status during momentary power failures is shown as follows.</p> <p><b>A. Power Failure of 0.01 s Max.</b></p>  <p>*Restarts from status before power failure.</p> <p><b>B. Power Failure of 0.5 s Min.</b></p>  <p>*Restarts from initial status after power reset.</p> <p><b>C. Power Failure of 0.01 to 0.5 s Max.</b></p>  <p>*Either A or B are undefined.</p>

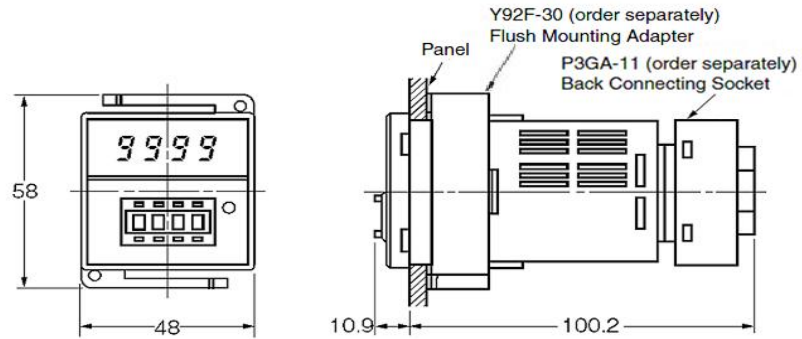


## Dimensions

### Product discontinuation

#### H5CN-YCNM AC100-240

- Dimensions with mounting adapter  
Model Y92F-30  
Flush mounting adapter

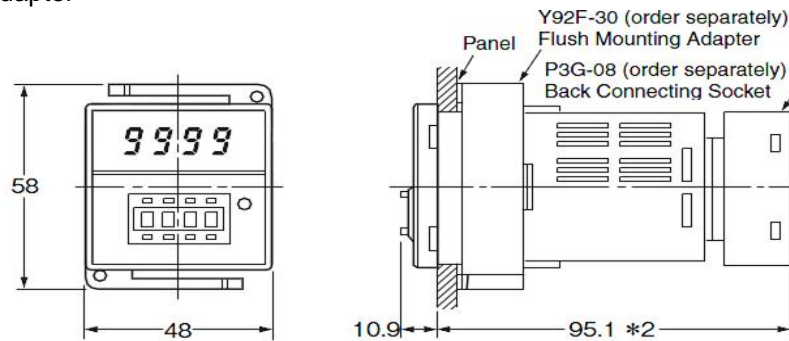


### Recommended replacement

#### H5CN-YCN AC100-240

No external dimension changes of timer for product discontinuation and recommended replacement.

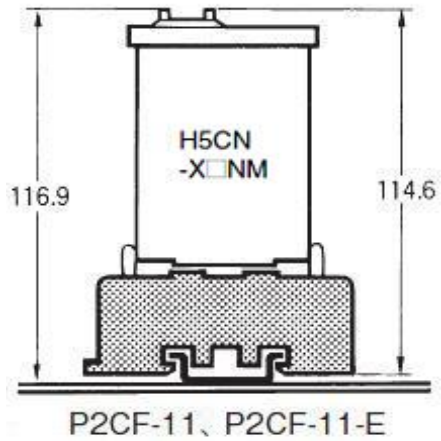
- Dimensions with mounting adapter  
Model Y92F-30  
Flush and surface  
mounting adapters



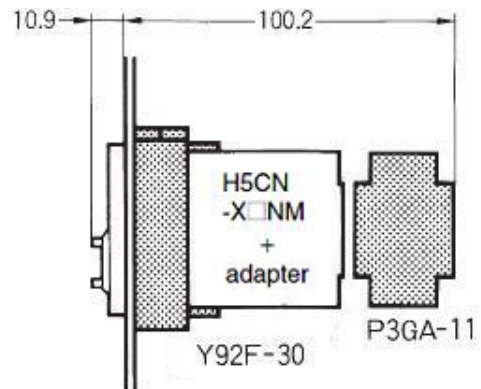
### Product discontinuation

#### H5CN-YCNM AC100-240

- Dimensions with front connecting socket  
Flush and surface mountings



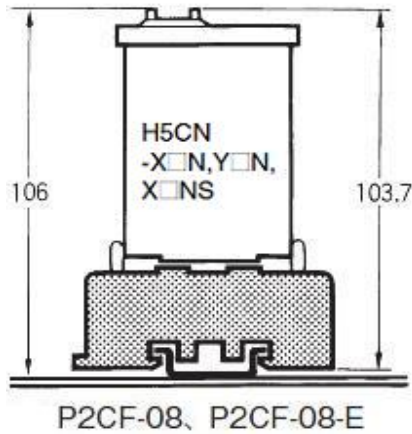
Flush mounting



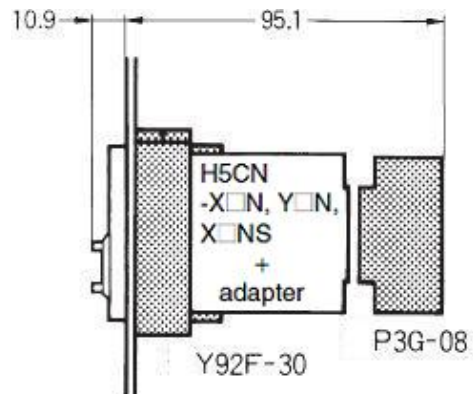
### Recommended replacement

#### H5CN-YCN AC100-240

- Dimensions with front connecting socket  
Flush and surface mountings



Flush mounting



Specifications and prices in this product news are as of the issue date and are subject to change without notice. Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.