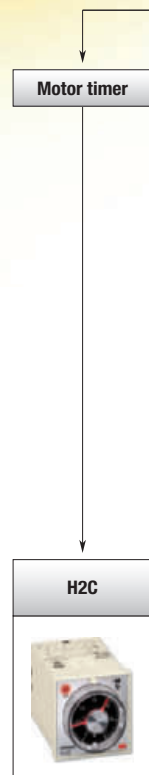At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. [HERE](#)

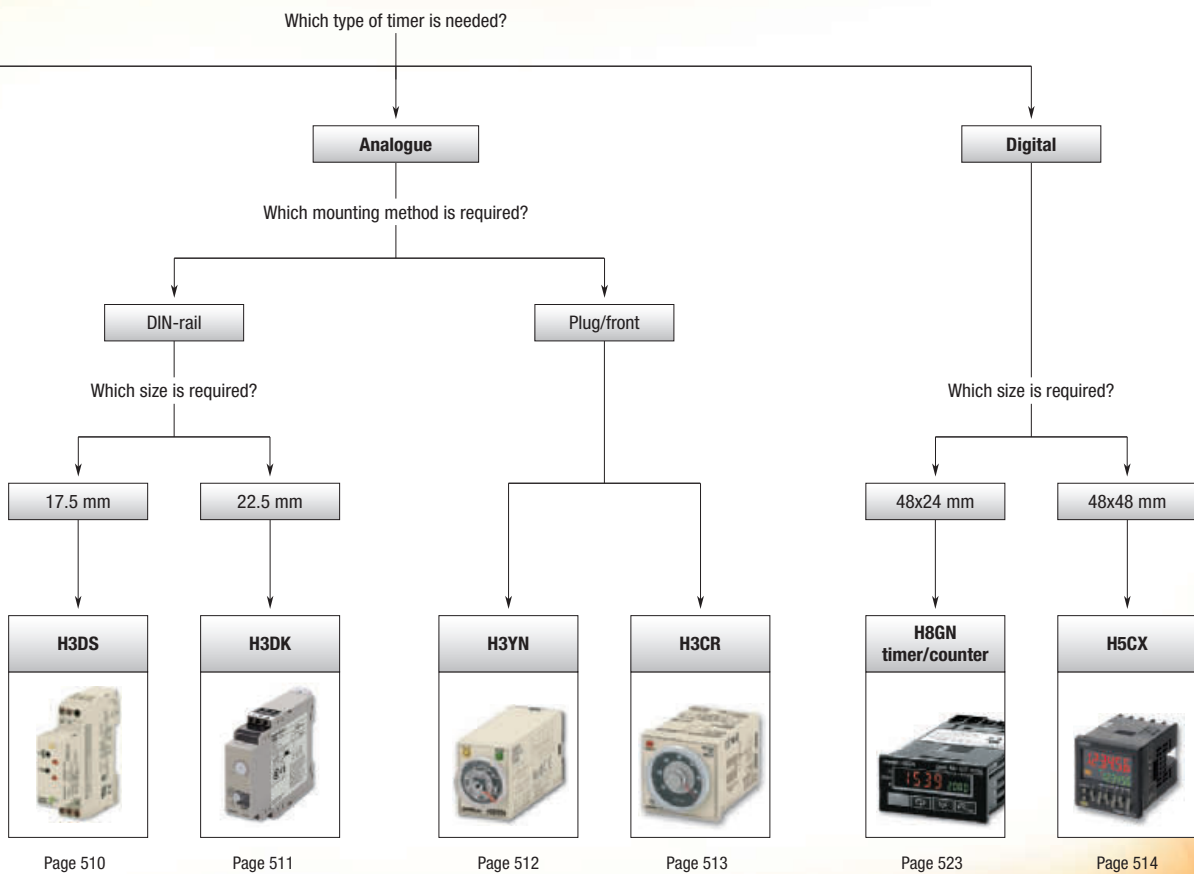# WHEN TIMING ACCURACY MATTERS!

H5CX – The most complete digital timer

The H5CX series offers multiple-functions and -timing ranges for precise timing control, as well as real twin-timing and memory function. These and other added-value features ensure that the H5CX covers almost every possible user requirement in timers.

- 15 different time functions
- Three colour display value, red, orange or green
- Models with instantaneous contact outputs
- 0.001 s to 9999 h, 10 ranges

Motor timer

H2C

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Which type of timer is needed?

```
Analogue                                    Digital

Which mounting method is required?

DIN-rail              Plug/front            Which size is required?

Which size is required?

17.5 mm    22.5 mm              48x24 mm   48x48 mm
```

H3DS	H3DK	H3YN	H3CR	H8GN timer/counter	H5CX
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Timers

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Selection table

Category	Analogue solid state timer										
Selection criteria											
Model	H3DS-M	H3DS-S	H3DS-A	H3DS-F	H3DS-G	H3DS-X	H3DK-M	H3DK-S	H3DK-F	H3DK-G	H3DK-H
Mounting	DIN-rail										
Size	17.5 mm						22.5 mm				
Type	Multi-functional			Twin timer	Star-delta	Two-wired	Multi-functional		Twin timer	Star-delta	Power OFF-delay
Contact configuration											
Time limit	■	■	■	■	■	■	■	■	■	■	■
Instantaneous	–	–	–	–	–	–	■	■	–	–	–
Programmable contacts	–	–	–	–	–	–	■	■	–	–	–
14 pins	–	–	–	–	–	–	–	–	–	–	–
11 pins	–	–	–	–	–	–	–	–	–	–	–
8 pins	–	–	–	–	–	–	–	–	–	–	–
Screw terminals	■	■	■	■	■	■	■	■	■	■	■
Screw-less clamp terminals	□	□	□	□	□	□	–	–	–	–	–
Screw-less clamp sockets	–	–	–	–	–	–	–	–	–	–	–
Inputs — Voltage input	□	□	□	–	–	–	□	□	–	–	–
Outputs											
Transistor	–	–	–	–	–	–	–	–	–	–	–
Relay	■	■	■	■	■	–	■	■	■	■	■
SCR	–	–	–	–	–	■	–	–	–	–	–
Relay output type — SPDT	■	■	■	■	–	–	□	■	■	■ (2x)	■
Relay output type — SPST-NO	–	–	–	–	■ (2x)	–	–	–	–	–	–
Relay output type — DPDT	–	–	–	–	–	–	□	■	–	–	–
Relay output type — 4PDT	–	–	–	–	–	–	–	–	–	–	–
Features											
Time range — Total time range	0.1 s to 120 h	1 s to 120 h	2 s to 120 h	0.1 s to 12 h	1 s to 120 s	0.1 s to 120 h	0.1 s to 1,200 h	0.1 s to 1,200 h	0.1 s to 1,200 h	1 s to 120 s	0.1 s to 120 s
Number of sub ranges	7	7	7	6	2	7	12	12	8	2	2 (model dependent)
Supply voltage	24 to 230 VAC or 24 to 48 VDC	24 to 230 VAC or 24 to 48 VDC	24 to 230 VAC or 24 to 48 VDC	24 to 230 VAC or 24 to 48 VDC	24 to 230 VAC or 24 to 48 VDC	24 to 230 VAC or 24 to 48 VDC	24 to 240 VAC/DC or 12 VDC	24 to 240 VAC/DC or 12 VDC	24 to 240 VAC/DC or 12 VDC	24 to 240 VAC/DC, 240 to 440VAC, 12 VDC	100 to 120 VAC, 200 to 240 VAC, 24 to 48 VAC/DC
Number of operating modes	8	4	1	2	1	1	8	4	1	1	1
Functions											
ON-delay	■	■	–	–	–	■	■	■	–	–	–
Flicker OFF start	■	–	–	■	–	–	■	–	■	–	–
Flicker ON start	■	■	–	■	–	–	■	■	■	–	–
Signal ON-/OFF-delay	■	–	–	–	–	–	■	–	–	–	–
Signal OFF-delay	■	–	–	–	–	–	■	–	–	–	■
Interval (signal or power start)	■	■	–	–	–	–	■	■	–	–	–
One-shot output (ON-delay)	■	■	–	–	–	–	■	■	–	–	–
ON-delay (fixed)	–	–	■	–	–	–	–	–	–	■	–
Independent ON/OFF time setting	–	–	–	–	–	–	–	–	–	–	–
Star-delta	–	–	–	–	■	–	–	–	–	–	–
Remarks — Transistor	–	–	–	–	–	■	–	–	–	–	–
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OMRON

Category	Analogue solid state timer					Digital timer		Motor timer
Model	H3YN	H3CR-A	H3CR-F	H3CR-G	H3CR-H	H5CX	H8GN	H2C
Mounting	Socket/on panel							
Size	21.5 mm	1/16 DIN					1/32 DIN	1/16 DIN
Type	Miniature	Multi-functional	Twin timer	Star-delta	Power OFF-delay	Multi-functional	Preset counter/timer	Motor timer
Contact configuration								
Time limit	■	■	■	■	■	■	■	■
Instantaneous	–	■	–	■	■	■	–	■
Programmable contacts	–	–	–	–	–	■	■	–
14 pins	■	–	–	–	–	–	–	–
11 pins	–	□	□	□	□	□	–	□
8 pins	■	□	□	□	□	□	–	□
Screw terminals	–	–	–	–	–	□	■	□
Screw-less clamp terminals	–	–	–	–	–	–	–	–
Screw-less clamp sockets	□	–	–	–	–	–	–	–
Inputs								
Voltage input	–	□	–	–	–	–	–	–
Outputs								
Transistor	–	□	–	–	–	□	–	–
Relay	■	□	■	■	■	□	■	■
SCR	–	–	–	–	–	–	–	–
Relay output type SPDT	–	□	–	–	□	□	■	■
SPST-NO	–	–	–	■ (2x)	–	–	–	–
DPDT	□	□	■	–	□	–	–	–
4PDT	□	–	–	–	–	–	–	–
Features								
Time range Total time range	0.1 s to 10 h (model dependent)	0.05 s to 300 h, 0.1 s to 600 h (model dependent)	0.05 s to 30 h or 1.2 s to 300 h (model dependent)	0.5 s to 120 s	0.05 s to 12 s, 1.2 s to 12 min	0.001 s to 9999 h (configurable)	0.000 s to 9999 h (configurable)	0.2 s to 30 h
Number of sub ranges	2	9	14	4	4	10	9	15
Supply voltage	24, 100 to 120, 200 to 230 VAC, 12, 24, 48, 100 to 110, 125 VDC	100 to 240 VAC, 100 to 125 VDC, 24 to 48 VAC, 12 to 48 VDC	100 to 240 VAC, 12 VDC, 24 VAC/DC, 48 to 125 VDC	100 to 120 VAC, 200 to 240 VAC	100 to 120 VAC, 200 to 240 VAC, 24 VAC/DC, 48 VDC, 100 to 125 VDC	100 to 240 VAC, 24 VAC, 12 to 24 VDC	24 VDC	24, 48, 100, 110, 115, 120, 200, 220, 240 VAC
Number of operating modes	4	6 (model dependent)	–	1	1	15	6	2
Functions								
ON-delay	■	□	–	–	–	■	■	■
Flicker OFF start	■	□	■	–	–	■	■	–
Flicker ON start	■	□	■	–	–	■	–	–
Signal ON-/OFF-delay	–	□	–	–	–	■	–	–
Signal OFF-delay	–	□	–	–	■	■	■	■
Interval (signal or power start)	■	□	–	–	–	■	■	–
One-shot output (ON-delay)	–	□	–	–	–	■	–	–
ON-delay (fixed)	–	–	–	–	–	■	–	–
Independent ON/OFF time setting	–	–	–	–	–	■	■	–
Star-delta	–	–	–	■	–	–	–	–
Remarks Transistor	–	□	–	–	–	■	–	–
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■ Standard □ Available – No/not available

Timers

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