

## H3DS Analogue Solid state Timers

This broad range of timers includes many functionalities and has a wide AC/DC power supply range. Models with screwless clamp connection available.

- 17.5mm width, modular 45mm
- DIN-rail mounting
- 24-48VDC and 24-230VAC
- 0.1 s to 120 h, 7 ranges



### H3DS-M/S/A Solid-state Multi-functional Timer

- Eight operating modes (H3DS-M) and four operating modes (H3DS-S) cover a wide range of applications.
- A wide time setting range of 0.10 s to 120 h.
- Two LEDs indicate power and relay status respectively.

Model		Type	Operating mode*	Supply Voltage	Output	Input
Screw terminal type	Screw-less clamp type					
<b>117154</b>	<b>117165</b>	Multi-function	Eight multi-modes: A,B,B2,C,D,E,G,J	24 to 230 VAC (50/60Hz)/ 24 to 48 VDC	Relay: SPDT	Voltage input
<b>117176</b>	<b>117187</b>	Standard	Four multi-modes: A,B2,E,J	24 to 230 VAC (50/60Hz)/ 24 to 48 VDC	Relay: SPDT	-
<b>117198</b>	<b>117209</b>	Single-function	Single mode: A	24 to 230 VAC (50/60Hz)/ 24 to 48 VDC	Relay: SPDT	-

### H3DS-F Solid-state Twin Timer

- Operates in flicker-OFF or flicker-ON start mode with one Unit.
- Independent ON- and OFF-time settings. Combinations of long ON- or OFF-time and short OFF- or ONtime setting are possible.
- Long time range from 0.1 s to 12 h for both ON and OFF time settings.

Model		Type	Operating mode	Supply Voltage	Output	Input
Screw terminal type	Screw-less clamp type					
<b>117220</b>	<b>117231</b>	Twin-timers	Flicker-OFF/Flicker-ON start	24 to 230 VAC (50/60 Hz)/24 to 48 VDC	Relay: SPDT	-

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\*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

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### H3DS-G Solid-state Star-delta Timer

- A wide star-time range (up to 120 seconds) and star-delta transfer time range (up to 1 second)

Model		Type	Operating mode	Supply Voltage	Output	Input
Screw terminal type	Screw-less clamp type					
<b>117242</b>	<b>117253</b>	Star-delta timer	Star-delta operation	24 to 230 VAC (50/60 Hz)/24 to 48 VDC	Relay: SPST-NO	-

### H3DS-X Solid-state Two-wired Timer

- Covers wide range of supply voltage (24 to 230 VAC/VDC).

Model		Type	Operating mode	Supply Voltage	Output	Input
Screw terminal type	Screw-less clamp type					
<b>117264</b>	<b>117275</b>	Star-delta timer	ON-delay	24 to 230 VAC/VDC (50/60 Hz)	SCR	-

## H3DE Analogue Solid state Timers

The H3DE series of timers provides a wide AC/DC power supply and time range to reduce the number of items.

- H 79 x W 22.5 x D 100mm
- DIN-rail mounting
- 24-230VAC/VDC (except -H)
- Wide time setting range: 0.10 s - 120 h (except -H and -G), 8 ranges



### H3DE-M/S Solid-state Multi-functional Timer

- Eight operating modes (H3DE-M) and four operating modes (H3DE-S) cover a wide range of applications.
- Programmable contact enables the building of a self-holding relay circuit.
- A wide time setting range of 0.10 s to 120 h.

Model	Type	Operating mode*	Supply Voltage	Output	Input
<b>117286</b>	Multi-function	A,B,B2,C,D,E, ,G,J	12 VDC	Relay: DPDT	Voltage input
<b>117297</b>	Multi-function	A,B,B2,C,D,E, ,G,J	24 to 230 VAC/DC	Relay: DPDT	Voltage input
<b>117308</b>	Multi-function	A,B,B2,C,D,E, ,G,J	24 to 230 VAC/DC	Relay: SPDT	Voltage input
<b>117319</b>	Standard	A,B2,E,J	24 to 230 VAC/DC	Relay: DPDT	-
<b>117330</b>	Standard	A,B2,E,J	24 to 230 VAC/DC	Relay: SPDT	-

### H3DE-F Solid-state Twin Timer

- Operates in flicker-OFF or flicker-ON start mode with one Unit.
- Independent ON- and OFF-time settings. Combinations of long ON- or OFF-time and short OFF- or ON time setting are possible.
- Long time range from 0.1 s to 12 h for both ON and OFF time settings.

Model	Type	Operating mode	Supply Voltage	Output	Input
<b>117341</b>	Twin timers	Flicker- OFF/Flicker- ON start	24 to 230 VAC/VDC	Relay: SPDT	-

### H3DF-G Solid-state Star-delta Timer

- A wide star-time range (up to 120sec.) and star-delta transfer time range (up to 0.5 sec.)

Model	Type	Operating mode	Supply Voltage	Output	Input
<b>117352</b>	Star-delta timer	Star-delta operation	24 to 230 VAC/VDC	Relay: SPDT	-

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## H3DE Analogue Solid state Timers

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### H3DE-H Solid-state Power OFF-delay Timer

- Two delay-time models available: 0.1 to 12 seconds (S Series) & 1 to 120 seconds (L Series)
- Covers wide range of supply voltage.

Model	Type	Operating mode	Supply Voltage	Output	Input
<b>117363</b>	Power OFF-delay timer	Power OFF-delay	100-120/200-230VAC, 24/48VDC	Relay: SPDT	-
<b>117374</b>	Power OFF-delay timer	Power OFF-delay	100-120/200-230VAC, 24/48VDC	Relay: SPDT	-

### H3YN Solid-state Timer

H3YN features 4 multi-operating modes: ON-delay, interval, flicker ON start and flicker OFF start.

- H 28 x W 21.5 x D 52.6mm
- Plug-in
- All supply voltages available
- 0.1 s to 10 h
- DPDT (5A) or 4PDT (3A)



Model	Type	Operating mode	Supply Voltage	Time limit contact
<b>117385</b>	Short-time range model (0.1 s to 10 min)	ON-delay, interval, flicker OFF start, or flicker ON start (selectable with DIP switch)	24,100-120,200-230VAC;12, 24,48,100-110, 125VDC	DPDT
<b>117396</b>			24,100-120,200-230VAC;12, 24,48,100-110, 125VDC	4PDT
<b>117407</b>	24VDC		4PDT (Twin contacts)	
<b>117418</b>	Long-time range model (0.1 min to 10 h)		24,100-120,200-230VAC;12, 24,48,100-110, 125VDC	DPDT
<b>117429</b>			24,100-120,200-230VAC;12, 24,48,100-110, 125VDC	4PDT
<b>117440</b>			24VDC	4PDT (Twin contacts)

## H3CR Analogue Solid state Timers

This elaborate range of solid state timers provides you with a multi-functional timer, twin timer, star-delta timer and a power OFF-delay timer.

- 48 x 48mm front-panel/plug-in
- High-/low-voltage models (except -H and -G)
- 0.05 s to 300 h (except -H and -G)
- DPDT, 5A at 250VAC
- Transistor 100mA at 30VDC



### H3CR-A Solid-state Multi-functional Timer

- A wider power supply range reduces the number of timer models kept in stock.
- A wide range of applications through six or four operating modes.
- Reduced power consumption(Except for H3CR-A8E)
- Enables 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.
- Time Setting Rings enable consistent settings and limit the setting range.
- Panel Covers enable various panel designs.
- PNP input models available.
- Rich variety of inputs: Start, reset, and gate functions (11-pin models and -AP models)

Model	Type	Operating mode*	Supply Voltage	Time Range	Output	Input	
<b>117451</b>	11-pin	Six multi-modes: A,B,B2,C,D,E	100-240VAC (50/60 Hz)/ 100-125VDC & 24-48VAC (50/60 Hz)/ 12-48 VDC	0.05s to 300h	Contact	No-voltage input	
<b>117462</b>	11-pin	Dual-modes: G,J		0.05s to 300h	Contact	No-voltage input	
<b>117473</b>	11-pin			0.05s to 300h	Contact	Voltage input	
<b>117484</b>	11-pin	Six multi-modes: A,B,B2,C,D,E		0.1s to 600h	Contact	No-voltage input	
<b>117495</b>	11-pin			0.05s to 300h	Transistor (Photocoupler)	No-voltage input	
<b>117506</b>	8-pin			0.05s to 300h	Contact	-	
<b>117517</b>	8-pin	Four multi-modes: A,B2,E,J		0.1s to 600h	Contact	-	
<b>117528</b>	8-pin	(Power supply start)		24-48VAC (50/60 Hz)/ 12-48 VDC	0.05s to 300h	Transistor (Photocoupler)	-
<b>117539</b>	8-pin			100-240VAC (50/60 Hz)/ 100-125VDC & 24-48VAC/VDC(50/60 Hz)	0.05s to 300h	Time-limit contact & instantaneous contact	-

## H3CR Analogue Solid state Timers

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### H3CR-F Solid-state Twin Timer

- Wide power supply ranges of 100 to 240 VAC and 48 to 125 VDC respectively.
- 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.
- Fourteen time ranges from 0.05 s to 30 h or from 1.2 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.

Model	Type (pins/time range)	Operating mode	Supply Voltage	Output
<b>117550</b>	11-pin/0.05s to 30h	Flicker OFF start	100 to 240VAC	Relay (DPDT)
<b>117561</b>	11-pin/0.05s to 30h	Flicker OFF start	24VAC/DC	Relay (DPDT)
<b>117572</b>	11-pin/0.05s to 30h	Flicker OFF start	12VDC	Relay (DPDT)
<b>117583</b>	11-pin/0.05s to 30h	Flicker OFF start	48 to 125VDC	Relay (DPDT)
<b>117594</b>	11-pin/0.05s to 30h	Flicker ON start	100 to 240VAC	Relay (DPDT)
<b>117605</b>	11-pin/0.05s to 30h	Flicker ON start	24VAC/DC	Relay (DPDT)
<b>117616</b>	11-pin/0.05s to 30h	Flicker ON start	12VDC	Relay (DPDT)
<b>117627</b>	11-pin/0.05s to 30h	Flicker ON start	48 to 125VDC	Relay (DPDT)
<b>117638</b>	8-pin/0.05s to 30h	Flicker OFF start	100 to 240VAC	Relay (DPDT)
<b>117649</b>	8-pin/0.05s to 30h	Flicker OFF start	24VAC/DC	Relay (DPDT)
<b>117660</b>	8-pin/0.05s to 30h	Flicker OFF start	12VDC	Relay (DPDT)
<b>117671</b>	8-pin/0.05s to 30h	Flicker OFF start	48 to 125VDC	Relay (DPDT)
<b>117682</b>	8-pin/0.05s to 30h	Flicker ON start	100 to 240VAC	Relay (DPDT)
<b>117693</b>	8-pin/0.05s to 30h	Flicker ON start	24VAC/DC	Relay (DPDT)
<b>117704</b>	8-pin/0.05s to 30h	Flicker ON start	12VDC	Relay (DPDT)
<b>117715</b>	8-pin/0.05s to 30h	Flicker ON start	48 to 125VDC	Relay (DPDT)

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### H3CR-F Solid-state Twin Timer

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Model	Type	Operating mode	Supply Voltage	Output
<b>117726</b>	11-pin/1.2s to 300h	Flicker OFF start	100 to 240VAC	Relay (DPDT)
<b>117737</b>	11-pin/1.2s to 300h	Flicker OFF start	24VAC/DC	Relay (DPDT)
<b>117748</b>	11-pin/1.2s to 300h	Flicker OFF start	12VDC	Relay (DPDT)
<b>117759</b>	11-pin/1.2s to 300h	Flicker OFF start	48 to 125VDC	Relay (DPDT)
<b>117770</b>	11-pin/1.2s to 300h	Flicker ON start	100 to 240VAC	Relay (DPDT)
<b>117781</b>	11-pin/1.2s to 300h	Flicker ON start	24VAC/DC	Relay (DPDT)
<b>117792</b>	11-pin/1.2s to 300h	Flicker ON start	12VDC	Relay (DPDT)
<b>117803</b>	11-pin/1.2s to 300h	Flicker ON start	48 to 125VDC	Relay (DPDT)
<b>117814</b>	8-pin/1.2s to 300h	Flicker OFF start	100 to 240VAC	Relay (DPDT)
<b>117825</b>	8-pin/1.2s to 300h	Flicker OFF start	24VAC/DC	Relay (DPDT)
<b>117836</b>	8-pin/1.2s to 300h	Flicker OFF start	12VDC	Relay (DPDT)
<b>117847</b>	8-pin/1.2s to 300h	Flicker OFF start	48 to 125VDC	Relay (DPDT)
<b>117858</b>	8-pin/1.2s to 300h	Flicker ON start	100 to 240VAC	Relay (DPDT)
<b>117869</b>	8-pin/1.2s to 300h	Flicker ON start	24VAC/DC	Relay (DPDT)
<b>117880</b>	8-pin/1.2s to 300h	Flicker ON start	12VDC	Relay (DPDT)
<b>117891</b>	8-pin/1.2s to 300h	Flicker ON start	48 to 125VDC	Relay (DPDT)

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### H3CR-G Solid-state Star-delta Timer

- A wide star-time range (up to 120s) and star-delta transfer time range (up to 0.5s).

Model	Type	Operating/Reset method	Supply Voltage	Output
<b>117902</b>	8-pin/star-delta timer/long body	Time-limit operation/ Self-reset	100-120AC	Time-limit
<b>117913</b>	8-pin/star-delta timer/long body	Time-limit operation/ Self-reset	200-240AC	Time-limit
<b>117924</b>	8-pin/star-delta timer/long body	Time-limit operation/ Self-reset	100-120AC	Time-limit & instantaneous
<b>117935</b>	8-pin/star-delta timer/long body	Time-limit operation/ Self-reset	200-240AC	Time-limit & instantaneous

### H3CR-H Solid-state Power OFF-delay Timer

- Long power OFF-delay times:  
S-series: up to 12 seconds  
M-series: up to 12 minutes.
- Models with forced-reset input are available.
- 11-pin and 8-pin models are available.

Model	Type	Operating/Reset method	Supply Voltage	Input	Output
<b>117946</b>	S-series/ 8-pin/long-body	Instantaneous operation/Time-limit reset	100-120VAC	Without reset input	DPDT
<b>117957</b>	S-series/ 8-pin/long-body		200-240VAC	Without reset input	DPDT
<b>117968</b>	S-series/ 8-pin/long-body		24VAC/DC	Without reset input	DPDT
<b>117979</b>	S-series/ 8-pin/long-body		48VDC	Without reset input	DPDT
<b>117990</b>	S-series/ 8-pin/long-body		100-125VDC	Without reset input	DPDT
<b>118001</b>	S-series/ 11-pin/long-body	Instantaneous operation/Time-limit reset/Forced reset	100-120VAC	With reset input	DPDT
<b>118012</b>	S-series/ 11-pin/long-body		200-240VAC	With reset input	DPDT
<b>118023</b>	S-series/ 11-pin/long-body		24VAC/DC	With reset input	DPDT
<b>118034</b>	S-series/ 11-pin/long-body		48VDC	With reset input	DPDT
<b>118045</b>	S-series/ 11-pin/long-body		100-125VDC	With reset input	DPDT

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### H3CR-H Solid-state Power OFF-delay Timer

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Model	Type	Operating/Reset method	Supply Voltage	Input	Output
<b>118056</b>	S-series/ 8-pin/long-body	Instantaneous operation/Time-limit reset/Forced reset	100-120VAC	With reset input	SPDT
<b>118067</b>	S-series/ 8-pin/long-body		200-240VAC	With reset input	SPDT
<b>118078</b>	S-series/ 8-pin/long-body		24VAC/DC	With reset input	SPDT
<b>118089</b>	S-series/ 8-pin/long-body		48VDC	With reset input	SPDT
<b>118100</b>	S-series/ 8-pin/long-body		100-125VDC	With reset input	SPDT
<b>118111</b>	M-series/ 11-pin/long-body	Instantaneous operation/Time-limit reset/Forced reset	100-120VAC	With reset input	DPDT
<b>118122</b>	M-series/ 11-pin/long-body		200-240VAC	With reset input	DPDT
<b>118133</b>	M-series/ 11-pin/long-body		24VAC/DC	With reset input	DPDT
<b>118144</b>	M-series/ 11-pin/long-body		48VDC	With reset input	DPDT
<b>118155</b>	M-series/ 11-pin/long-body		100-125VDC	With reset input	DPDT
<b>118166</b>	M-series/ 8-pin/long-body	Instantaneous operation/Time-limit reset	100-120VAC	Without reset input	SPDT
<b>118177</b>	M-series/ 8-pin/long-body		200-240VAC	Without reset input	SPDT
<b>118188</b>	M-series/ 8-pin/long-body		24VAC/DC	Without reset input	SPDT
<b>118199</b>	M-series/ 8-pin/long-body		48VDC	Without reset input	SPDT
<b>118210</b>	M-series/ 8-pin/long-body		100-125VDC	Without reset input	SPDT
<b>118221</b>	M-series/ 8-pin/long-body	Instantaneous operation/Time-limit reset/Forced reset	100-120VAC	Without reset input	DPDT
<b>118232</b>	M-series/ 8-pin/long-body		200-240VAC	Without reset input	DPDT
<b>118243</b>	M-series/ 8-pin/long-body		24VAC/DC	Without reset input	DPDT
<b>118254</b>	M-series/ 8-pin/long-body		48VDC	Without reset input	DPDT
<b>118265</b>	M-series/ 8-pin/long-body		100-125VDC	Without reset input	DPDT

Analogue Solid state Timers accessories

PF Track mounting sockets

Part Number	Description	Dimensions (external) mm LengthxWidthxDepth
<b>118276</b>	Socket,DIN/SURFACE, 8-pin,black	92 x 64 x 58
<b>118287</b>	Socket,DIN/SURFACE, 11-pin,black	52 x 43 x 31

