

Solid-state Timer

English

# H3YN-21 DC100-110

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## Analog Timer, DC100 to 110V

<b>Rated supply voltage</b>	100 to 110VDC If power supply incorporates a single-phase full-wave rectifier.
<b>Control output (Type)</b>	Time-limit: DPDT
<b>External connection method</b>	Plug-in terminal

Series



Solid-state Timer  
**H3YN**

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<b>Rated supply voltage</b>	100 to 110VDC If power supply incorporates a single-phase full-wave rectifier.
<b>Operating voltage range</b>	85% to 110% of rated supply voltage
<b>Power consumption (Relay ON)</b>	1.6W(at 110 VDC)
<b>Power consumption (Relay OFF)</b>	0.4W(at 110 VDC)
<b>Reset voltage</b>	10% max. of rated supply voltage
<b>Number of time ranges</b>	4
<b>Time ranges</b>	0.1min~1min / 1min~10min / 0.1h~1h / 1h~10h
<b>Operating mode</b>	ON delay, Interval, Flicker OFF start, Flicker ON start, Pulse Operation (use in interval mode, connect power supply terminals as pulse operation)
<b>Control output (Type)</b>	Time-limit: DPDT
<b>Control output (Contact output)</b>	Switching capacities (resistive load (cos(phi) = 1)): 250VAC 5A Minimum applicable load: 1 mA at 5 VDC (failure level: P)
<b>Ambient temperature</b>	Operating: -10 to 50°C Storage: -25 to 65°C
<b>Ambient humidity</b>	使用時: 35~85%
<b>Accuracy of operating time</b>	+/- 1% max.(FS)
<b>Setting error</b>	-10 to 10% +/- 50 ms max. (FS)
<b>Reset time</b>	0.1 s max. (including halfway reset)
<b>Influence of voltage</b>	+/- 2% FS max.
<b>Influence of temperature</b>	+/- 2% FS max.
<b>Insulation resistance</b>	100 MΩ (at 500 VDC)
<b>Dielectric strength</b>	between current carrying terminals and exposed non-current carrying metal parts: 2000 VAC, 50/60 Hz for 1 min (Terminal screw sections are not excluded) between control output terminals and operating circuit: 2000 VAC, 50/60 Hz for 1 min between contacts of different poles: 2000 VAC, 50/60 Hz for 1 min between non-continuous contacts: 1000 VAC, 50/60 Hz for 1 min
<b>Impulse withstand voltage</b>	between power terminals: 3 kV between exposed non-current-carrying metal parts: 4.5 kV
<b>Noise immunity</b>	+/- 1.5 kV square-wave noise by noise simulator (pulse width: 100 ns/1 us, 1-ns rise)
<b>Static immunity</b>	Multifunction: 4 kV Destruction: 8 kV
<b>Vibration resistance (Destruction)</b>	10 to 55 Hz, 0.75 mm single amplitude each in X, Y, and Z directions for 1 hours
<b>Vibration resistance</b>	10 to 55 Hz, 0.5 mm single amplitude each in X, Y, and Z directions for 10 min

(Malfunction)	
Shock resistance (Destruction)	1000 m/s**2, 3 times each 6 directions
Shock resistance (Malfunction)	100 m/s**2, 3 times each 6 directions
Mechanical life expectancy (relayoutput)	10000000 operations min. (under no load at 1800 operations/h)
Electrical life expectancy (relay output)	500000 operations min. (5 A at 250 VAC, resistive load at 1800 operations/h)
Degree of protection	IP40
External connection method	Plug-in terminal
Case color	Munsell 5Y7/1 (Light gray)
Weight (Main)	Approx. 50 g

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