Multi-range, Multi-mode Timer

H3DK-S1 AC/DC24-240

English

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Analog Timer, DC24 to 240V, AC24 to 240V

Rated supply voltage	24 to 240VAC 50/60 Hz 24 to 240VDC ripple: 20% max.
Control output (Type)	Relay output (SPDT)

Item list of H3DK-M / -S

Series

Multi-range, Multi-mode Timer
H3DK-M / -S

Catalog

about this Product

Inquiry of this Product

Ratings/Performance | Dimensions | Block diagram | Terminal arrangement | Time ranges | Operating chart

As of November 11, 2015

Rated supply voltage	24 to 240VAC 50/60 Hz 24 to 240VDC ripple: 20% max.
Operating voltage range	85% to 110% of rated supply voltage
Minimum input signal width	50 ms min. (Start input)
Power consumption (Relay ON)	4.5VA(at 240 VAC) 1.1W(at 24 VDC)
Power consumption (Relay OFF)	(at 240 VAC) (at 24 VDC)
Reset voltage	10% max. of rated supply voltage
Number of time ranges	8
Time ranges	0.1s～1.2s / 1s～12s / 10s～120s / 1min～12min / 10min～120min / 1h～12h / 10h～120h / 100h～1200h
Operating mode	ON delay, Flicker ON start, Interval, One shot output
Control output (Type)	Relay output (SPDT)
Control output (Contact output)	Switching capacities (resistive load (cos (phi) = 1)): 250VAC 5A / 30VDC 5A Switching capacities (resistive load (cos (phi) = 1)): 250VAC 5A / 125VDC 0.15A Switching capacities (resistive load (cos (phi) = 1)): 250VAC 5A / 125VDC 0.1A Minimum applicable load: 10 mA at 5 VDC (failure level: P)
Ambient temperature	Operating: -20 to 55… Storage: -40 to 70…
Ambient humidity	使用時: 25～85%
Accuracy of operating time	+/- 1% max.(FS) （+/- 1% +/- 10 ms max. in a range of 1.2 s）
Setting error	-10 to 10% +/- 0.05 s max. (FS)
Influence of voltage	+/- 0.5% FS max. (+/- 0.5% +/- 10 ms max. in a range of 1.2 s)
Influence of temperature	+/- 2% FS max. (+/- 2% +/- 10 ms max. in a range of 1.2 s)
Insulation resistance	100 MΩ (at 500 VDC)
Dielectric strength	between current carrying metal parts and non-current carrying metal parts: 2000 VAC, 50/60 Hz for 1 min between control output terminals and operating circuit: 2000 VAC, 50/60 Hz for 1 min between non-continuous contacts: 1000 VAC, 50/60 Hz for 1 min
Impulse withstand voltage	between power terminals: 5 kV between exposed non-current-carrying metal parts: 5 kV
Noise immunity	+/- 1.5 kV (between power terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 us, 1-ns rise)
Static immunity	Mulfunction: 4 kV Destruction: 8 kV
Vibration resistance (Destruction)	10 to 55 Hz, 0.75 mm single amplitude each in X, Y, and Z directions for 2 hours
Vibration resistance (Malfunction)	10 to 55 Hz, 0.5 mm single amplitude each in X, Y, and Z directions for 10 min
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)	100000 operations min. (5 A at 250 VAC, resistive load at 360 operations/h)
Degree of protection	IP30(Terminal Block: IP20)
Weight (Main)	Approx. 120 g

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