

# Multi-range, Multi-mode Timer

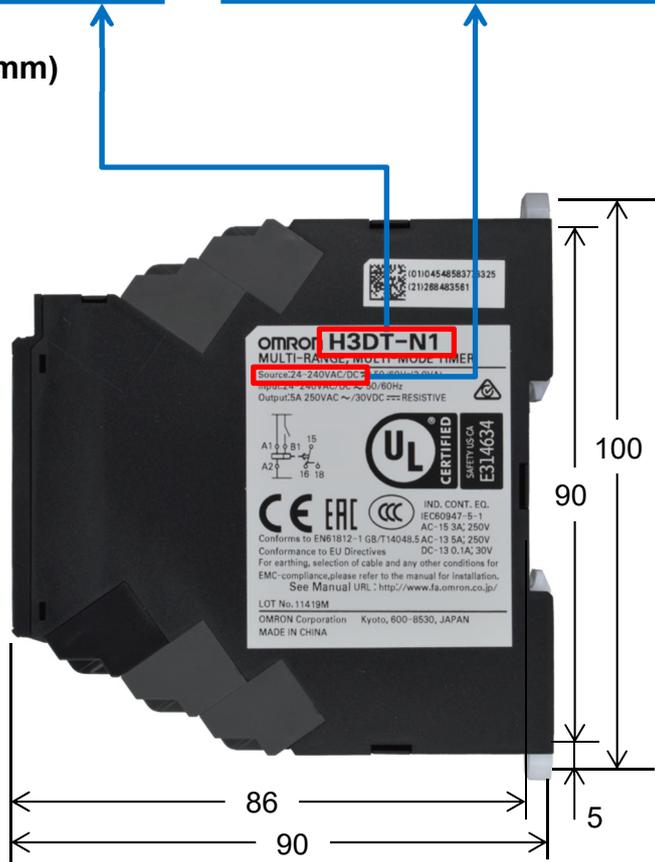
## Order Code

**H3DT-N1 24 to 240 VAC/DC**

Dimensions (Unit: mm)

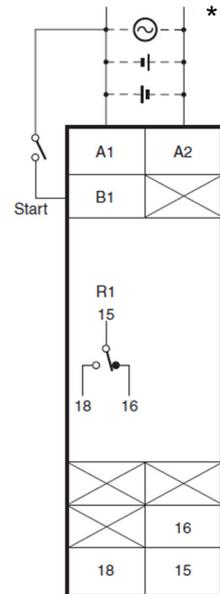


Front

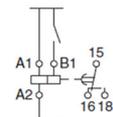


Side view

Terminal Arrangement



\* The power supply terminals do not have polarity.  
(DIN notation)

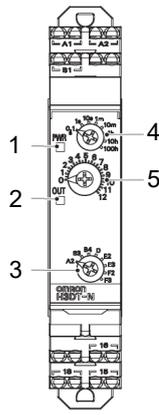


## Technical criteria

Rated supply voltage	24 to 240 VAC/DC, 50/60 Hz
Operating mode	A2, B3, B4, D, E2, E3, F2, F3
Input method	Voltage input
Minimum input signal width	50 ms (start input)
Power Reset (Minimum power-OFF time)	0.1 s
Control Output	5 A at 250 VAC with resistive load ( $\cos\phi = 1$ ), 5 A at 30 VDC with resistive load, 0.15 A max. at 125 VDC with resistive load, 0.1A max. at 125 VDC with L/R of 7 ms. Minimum applicable load:10 mA at 5 VDC.
Accuracy of operating time	$\pm 1\%$ of FS max. ( $\pm 1\% \pm 10$ ms max. at 1.2-s range)
Setting error	$\pm 10\%$ of FS $\pm 0.05$ s max.
Operating Temperature	-20 to 60°C
Operating Humidity	25% to 85%
IP	IP30 (Terminal block: IP20)

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

# Nomenclature



1	Operation/power indicator
2	Output indicator
3	Operating mode switch
4	Time range switch
5	Main dial

## Time range

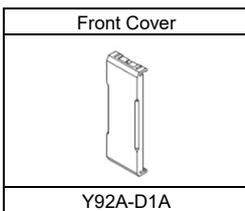
Time range setting	0.1 s	1 s	10 s	1 min	10 min	1 h	10 h	100 h
Set time range	0.1 to 1.2 s	1 to 12 s	10 to 120 s	1 to 12 min	10 to 120 min	1 to 12 h	10 to 120 h	100 to 1,200 h
Scale numbers	12							

## Timing Chart

<b>A2: ON Delay</b> 	<b>E2: Interval</b> 
<b>B3: Flicker OFF Start</b> 	<b>E3: Signal OFF Interval</b> <p>* The start input is valid while the Timer is in operation.</p>
<b>B4: Flicker ON Start</b> 	<b>F2: Cumulative (ON Delay)</b> <p>Note: Timing is performed while the start input is ON.</p>
<b>D: Signal OFF Delay</b> <p>* The start input is valid while the Timer is in operation.</p>	<b>F3: Cumulative (Interval)</b> <p>Note: Timing is performed while the start input is ON.</p>

Note: Refer to the official Datasheet, how to use Gate input.

## Accessories



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