Multi-range, Multi-mode Timer
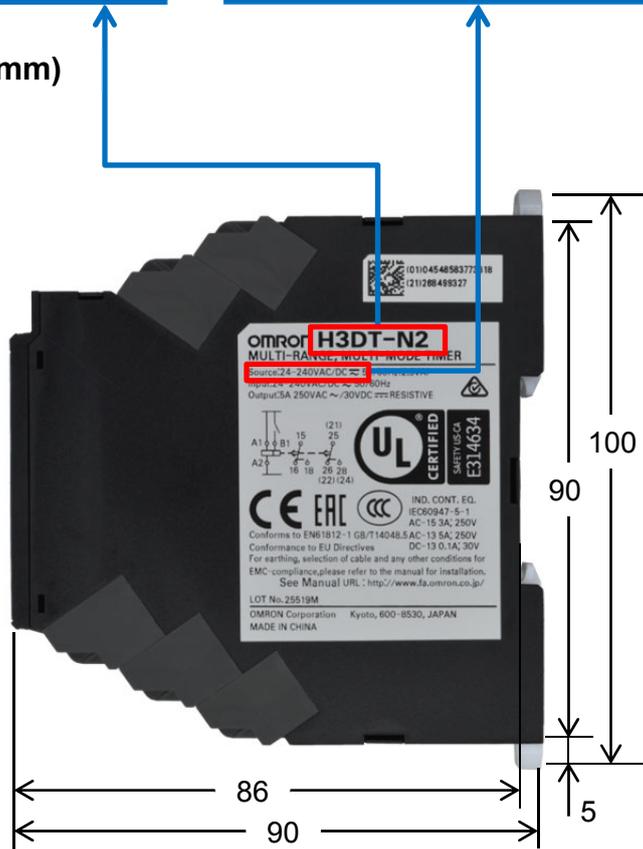
Order Code

H3DT-N2 24 to 240 VAC/DC

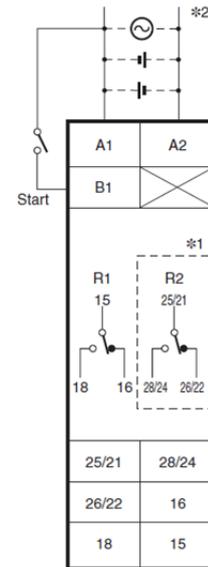### Dimensions (Unit: mm)
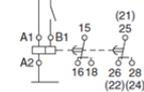
17.5

Front

86

90

Side view

100

90

5

Terminal Arrangement

| A1 | A2 |
| B1 | ✕ |

Start

R1	R2
15	25/21
18	16	28/24	26/22

25/21	28/24
26/22	16
18	15

✲1. The relay R2 can be set to either instantaneous or time-limit contacts using the switch on the front of the Timer.

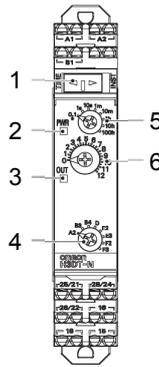✲2. The power supply terminals do not have polarity.

(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 (cosφ = 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	±1% of FS max. (±1% ±10 ms max. at 1.2-s range)
Setting error	±10% of FS ±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	INIT/TIME switch for relay R2
2	Operation/power indicator
3	Output indicator
4	Operating mode switch
5	Time range switch
6	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

A2: ON Delay	E2: Interval
Power / Output — Timing	Power / Output — Timing

B3: Flicker OFF Start	E3: Signal OFF Interval
Power / Output — Timing–Timing–Timing–Timing	Power / Start input / Output — Timing ✳ The start input is valid while the Timer is in operation.

B4: Flicker ON Start	F2: Cumulative (ON Delay)
Power / Output — Timing–Timing–Timing–Timing	Power / Start input / Output — Timing Holding Timing Note: Timing is performed while the start input is ON.

D: Signal OFF Delay	F3: Cumulative (Interval)
Power / Start input / Output — Timing ✳ The start input is valid while the Timer is in operation.	Power / Start input / Output — Timing Holding Timing Note: Timing is performed while the start input is ON.

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

Accessories

Front Cover

Y92A-D1A