

Multi-range, Multi-mode Timer

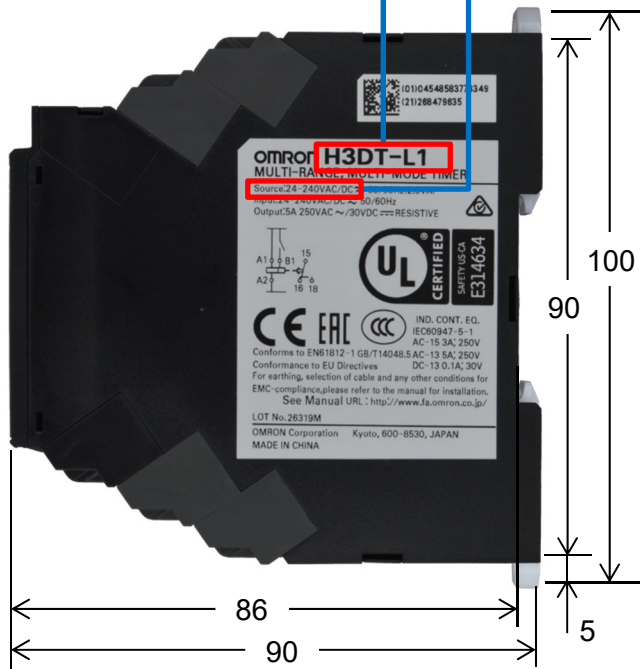
Order Code

H3DT-L1 24 to 240 VAC/DC

Dimensions (Unit: mm)

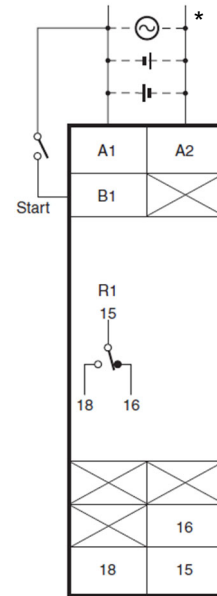


Front



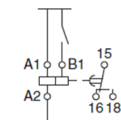
Side view

Terminal Arrangement



* The power supply terminals do not have polarity.

(DIN notation)

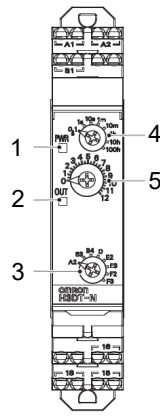


Technical criteria

| | |
|--------------------------------------|---|
| Rated supply voltage | 24 to 240 VAC/DC, 50/60 Hz |
| Operating mode | A, B, B2, C, E, G, J, J2 |
| 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 ± 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

| | |
|---|---|
| A: ON Delay <p>* The start input is ignored while the Timer is in operation.</p> | E: Interval <p>* The start input is valid while the Timer is in operation.</p> |
| B: Flicker OFF Start <p>* The start input is ignored while the Timer is in operation.</p> | G: Signal ON/OFF Delay <p>* The start input is valid while the Timer is in operation.</p> |
| B2: Flicker ON Start <p>* The start input is ignored while the Timer is in operation.</p> | J: One-shot Output (Signal Start) <p>* The start input is valid while the Timer is in operation.</p> |
| C: Signal ON/OFF Delay <p>* The start input is valid while the Timer is in operation.</p> | J2: One-shot Output (Power ON Start) <p>* The start input is valid while the Timer is in operation.</p> |

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

Accessories

| |
|-------------|
| Front Cover |
| |
| Y92A-D1A |

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