

Solid-state Timers

H3DT

More Advanced Timers for New Control Panels



- Low power consumption
- Push-In Plus terminal blocks for easy wiring
- Certified for safety standards of major countries

More Advanced Timers for New Control Panels

Technology and Quality Developed over 80 Years of History



Now the H3DT Series of Timers Are Available with New Advanced Concepts

It's been 80 years since the production of OMRON's first product: an X-ray Timer. They provide more value to the customer while leading control panels to a new stage.



Even with the slim design, the dial size is equivalent to the one for previous OMRON Timers with a 22.5-mm width to ensure operability.

Width of **17.5mm** even for Two-relay output.



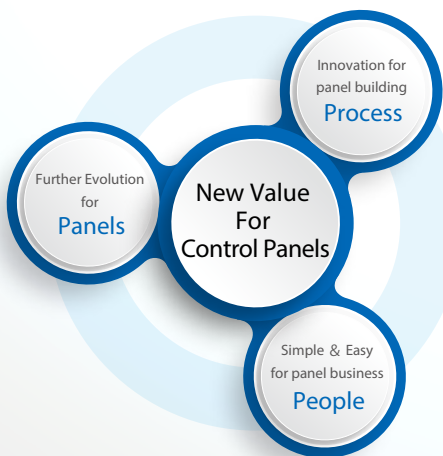
Half the Power Consumption*1

At Least 3 Times the Life Expectancy*2

Ambient Operating Temperature of 60°C

*1. Comparison with previous OMRON Timer (excluding the H3DT-H).

*2. Comparison with previous OMRON Timer under adverse conditions.



New Value For Control Panels



Our shared Value Design for Panel (herein after referred to as "Value Design") concept for the specifications of products used in control panels will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

Control Panels: The Heart of Manufacturing Sites.

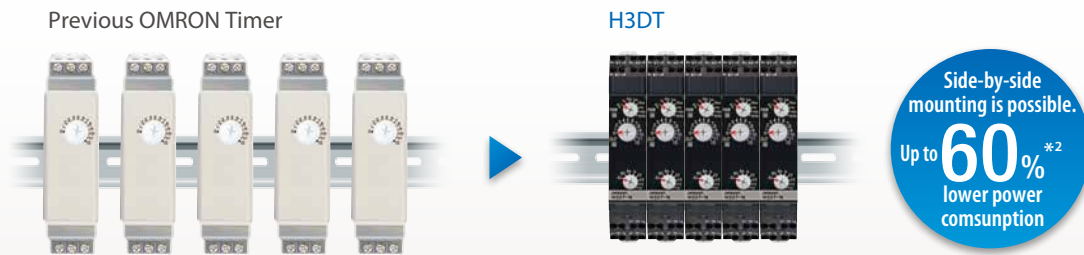
Evolution in control panels results in large evolution in production facilities.

And if control panel design, control panel manufacturing processes, and human interaction with them are innovated, control panel manufacturing becomes simpler and takes a leap forward.

OMRON will continue to achieve a control panel evolution and process innovation through many undertakings starting with the shared Value Design for Panel concept for the specifications of products used in control panels.

The Top Class in Industry*1 for Low Power Consumption

Power consumption is low, which reduces the DC power supply load for the entire control panel.



And more

The expected service life is more than THREE times*3
Reduces the work and cost involved in replacement and other maintenance.

*1. According to OMRON investigation in November 2015.
*2. Comparison with previous OMRON Timer (excluding the H3DT-H).
*3. Comparison with previous OMRON Timer under adverse conditions.

Push-In Plus Terminal Blocks for Easy Wiring

Just Insert Wires: No Tools Required
Now you can use Push-In Plus terminal blocks to reduce the time and work involved in wiring.

Greatly Reduce Wiring Work with Push-In Plus Terminal Blocks

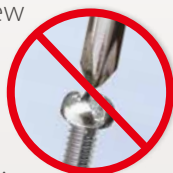


Conventional screw terminal blocks OMRON Push-In Plus terminal block

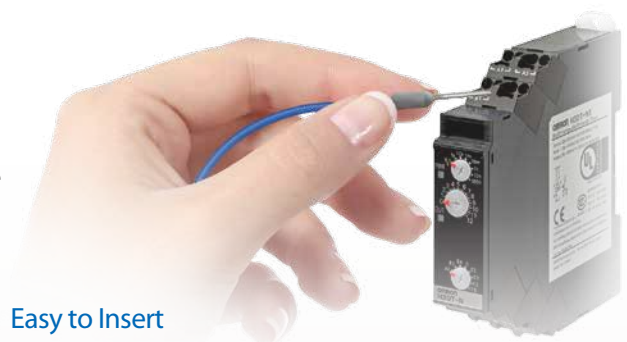
*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.

No Retightening Required

Tightening screws is necessary for screw terminal blocks, but with Push-In Plus terminal blocks, there is no need for retightening.



This reduces works for wirings, inspections, delivery (shipping), or maintenance.



Easy to Insert

OMRON's Push-In Plus terminal blocks are as easy as inserting to an earphone jack. They help reduce the work load and improve wiring quality.

Held Firmly in Place

Even though less insertion force is required, the wires are held firmly in place. The advanced mechanism design technology and manufacturing technology produced a spring that ensures better workability and reliability.

| IEC standard (cable diameter) | Push-In Plus terminal block | Screw terminal block |
|--|-----------------------------|----------------------|
| 20 N min. (AWG20,0.5 mm ²) | 125 N | 112 N |

*Information for Push-In Plus and screw terminal blocks is based on OMRON's actual measurement value data.






Certified for Safety Standards of Major Countries

The Timers help to reduce the work involved in control panel design with certifications and compliance for various standards, including UL Listing.




*CSA conformance evaluation by UL.

Product Lineup


| Model | H3DT-N/L | H3DT-A | H3DT-F | H3DT-G | H3DT-H |
|------------|---|---|---|---|--|
| Type | Multi-functional Timers | Power ON-delay Timers | Twin Timers | Star-delta Timers | Power OFF-delay Timers |
| Appearance |  |  |  |  |  |


Accessories

| Model | Y92A-D1A |
|------------|---|
| Name | Front cover |
| Appearance |  |


Refer to the H3DT Solid-state Timers Datasheet (Cat. No. M090) for details.

Products That Create New Value in Control Panels







Switch Mode Power Supplies
S8VK-S



Uninterruptible Power Supply (UPS)
S8BA




Power Monitors
KM-N2




Digital Temperature Controllers
E5CC-B/E5EC-B




Measuring and Monitoring Relays
K8DT




Solid-state Timers
H3DT



Solid-state Timers
H3Y-□-B/H3YN-B




Solid-state Timers
H3RN-□-B




Liquid Leakage Sensor Amplifiers
K7L-□□B




Sockets for MY series,
H3Y-□-B and H3YN-B
PYF-PU-□




Sockets for G2R-S,
H3RN-□-B and K7L-□□B
P2RF-PU




Slim I/O Relays
G2RV-SR




Slim I/O Relays
G3RV-SR



I/O Relay Terminals
G70V




Solid State Relays for Heaters
G3PJ




DIN Track Terminal Blocks
XW5T

Panel Assist Web

www.ia.omron.com/solution/panel/





Proposal for Innovation of Control Panel Building
Cat. No. Y218

Before you place an order, please read and understand "Agreement for Using the Product" available on Omron's latest "Best control devices Omron", "General Brochure" or Omron's website.

OMRON Corporation Industrial Automation Company
Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967
Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2016 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

CSM_1_1_0316
Cat. No. M091-E1-01

0316 (0316)