

# 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



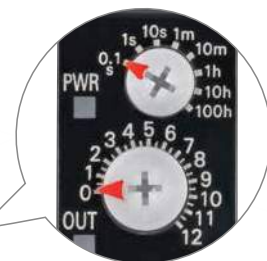
OMRON's First X-Ray  
Timer Made in 1933

### 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.



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



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.



**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

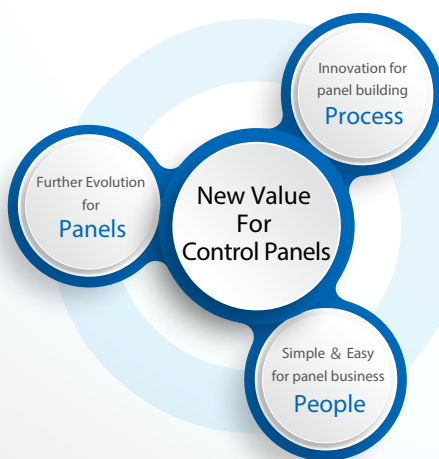


Our shared Value Design for Panel (herein after referred to as "Value Design") concept for the specifications of products used in control panels will create new value to our customer's control panels. Combining multiple products that share the Value Design concept will further increase the value provided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

Control Panels: The Heart of Manufacturing Sites.

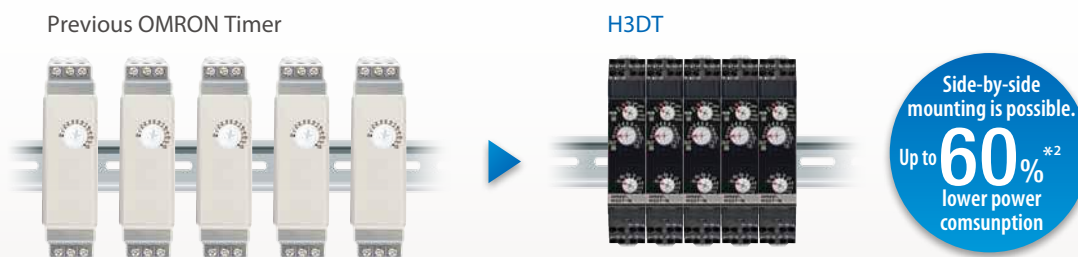
Evolution in control panels results in large evolution in production facilities.

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\*<sup>1</sup> for Low Power Consumption

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



**The expected service life is more than THREE times\*<sup>3</sup>**  
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



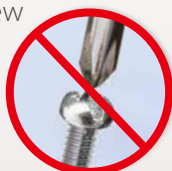
Conventional screw terminal blocks OMRON Push-In Plus terminal block

\*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<br>(cable diameter)          | Push-In Plus<br>terminal block | Screw terminal<br>block |
|---|--------------------------------|-------------------------|
| 20 N min.<br>(AWG20,0.5 mm <sup>2</sup> ) | 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.






## 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 | <br> | <br> | <br> | <br> | <br> |

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

## Accessories

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

## Products That Create New Value in Control Panels





Switch Mode Power Supplies  
S8VK-S



Uninterruptible Power Supply (UPS)  
S8BA



Power Monitors  
KM-N2/KM-N3



Measuring and Monitoring Relays  
K8DT



Solid-state Timers  
H3DT



Solid-state Timers  
H3Y(N)-B



Solid-state Timers  
H3RN-B



Liquid Leakage Sensor Amplifiers  
K7L-B



Sockets for Relays with Forcibly Guided Contacts (for G7SA)  
P7SA-PU



Common Sockets (for MY/H3Y(N)-B)  
PYF-PU(-L)



Common Sockets (for G2R-S/H3RN-B/K7L-B)  
P2RF-PU



Slim I/O Relays  
G2RV-SR



Slim I/O Relays  
G3RV-SR



I/O Relay Terminals  
G70V



Pushbutton Switches Push-In Plus Terminal Block Series  
A22N-P/A30N-P/M22N-P



Solid State Relays for Heaters  
G3PJ



DIN Track Terminal Block  
XW5T



Digital Temperature Controllers  
E5CC-B/E5EC-B

Panel Assist Web

[www.ia.omron.com/solution/panel/](http://www.ia.omron.com/solution/panel/)





Innovation in 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.

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