

# More advanced Timers for new control panels

## H3DT Solid-state Timers



- Low power consumption
- Push-in plus technology for easy wiring
- Certified for safety standards globally

# Development in technology and quality over 80 years

## Now the H3DT series of Timers are available with new advanced concepts

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



X-Ray Timer



Width of 17.5mm even for Two-relay output.

Dial size is equivalent to our previous model of 22.5mm width to ensure operability.

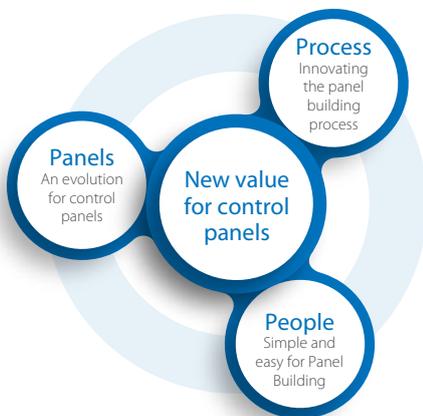


Half power consumption\*1

At least 3 times life expectancy \*2

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

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. We 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.



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.

### The top class in Industry(\*1) for lower power consumption

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

60%  
lower power  
consumption\*2



- \*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.

### The expected service life is more than THREE times\*3

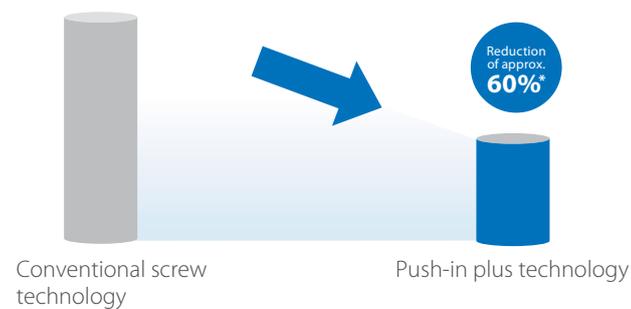
Reduces the work and cost involved in replacement and other maintenance.

### Fast wiring via push-in plus technology

Just insert the wires – no tools required. Do all your wiring in less than half the time needed with screw type terminal type.



### Greatly reduce wiring with push-in plus technology



\* Information for Push-in plus and screw terminals is based on our actual measurement value data.

### Easy to insert

Our push-in plus technology is as easy as inserting to an earphone jack – reducing your work load and improving wiring quality at the same time.

### 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.

### No retightening required

Retightening screws is often necessary for screw terminals, but with Push-in plus, there is no (re) tightening.



IEC standard (cable diameter)	Push-in plus technology	Screw technology
20 N min. (AWG20,0.5 mm <sup>2</sup> )	<b>125 N*</b>	112 N*

\* Data from our own research.

### Certified for safety standards globally

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



\*1 CSA conformance evaluation by UL. \*2 DNV-GL is pending for certification

# Ordering information

Type	Supply voltage	Operating modes	Terminal block	Input type	Control output	Time range	Order code
Multi-range multi-mode standard timer	24 to 240 VAC/DC	A2 : ON Delay (Power ON Delay) B3 : Flicker OFF Start (Power ON Start) B4 : Flicker ON Start (Power ON Start) D : Signal OFF Delay E2 : Interval (Power ON Start) E3 : Signal OFF Interval F2 : Cumulative (ON Delay) F3 : Cumulative (Interval)	10 terminals	Voltage input	Relay, DPDT	0.1 s to 1,200 h	H3DT-N2
			8 terminals Relay		Relay, SPDT		H3DT-N1
Multi-range, multi-mode expansion timer	24 to 240 VAC/DC	A : ON Delay (Signal ON Delay) B : Flicker OFF Start (Signal Start) B2 : Flicker ON Start (Signal Start) C : Signal ON/OFF Delay E : Interval (Signal Start) G : Signal ON/OFF Delay J : One-shot Output (Signal Start) J2 : One-shot Output (Power ON Start)	10 terminals		Relay, DPDT	0.1 s to 1,200 h	H3DT-L2
			8 terminals		Relay, SPDT		H3DT-L1
Power ON-delay timer	24 to 240 VAC/DC	Power ON-delay	8 terminals	-	Relay, DPDT	0.1 s to 1,200 h	H3DT-A2
			6 terminals		Relay, SPDT		H3DT-A1
Twin timer	24 to 240 VAC/DC	Flicker OFF start/flicker ON start	6 terminals	-	Relay, SPDT	0.1 s to 1,200 h	H3DT-F
Star-delta timer	24 to 240 VAC/DC	Star-delta	8 terminals	-	Relay, Time-limit Star circuit, SPDT Delta circuit, SPDT	1 to 120 s*1	H3DT-G
Power OFF-delay timer	100 to 120 VAC	Power-OFF delay	6 terminals	-	Relay, SPDT	0.1 to 12 s	H3DT-HCS
	200 to 240 VAC						H3DT-HDS
	24 to 48 VAC/DC						H3DT-HBS
	100 to 120 VAC					1 to 120 s	H3DT-HCL
	200 to 240 VAC						H3DT-HDL
	24 to 48 VAC/DC						H3DT-HBL

\*1 Star set time (t1) range. Star-Delta transfer time (t2): Select from 0.05, 0.1, 0.25, or 0.5 s

Would you like to know more?

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