

# DIN Track Terminal Blocks

XW5T

More Efficient Control Panel Production  
Starts with the Terminals



- Push-In Plus terminal blocks for easy wiring
- Minimum width of 3.5 mm to help downsize control panels
- New models with widths of 5.2 mm and 6.2 mm joined the lineup

# For building green control panels

Natural disasters caused by global warming and climate change are becoming a global social issue, that drives over 150 countries and regions worldwide to take action toward decarbonization. Our goal is to reduce greenhouse gas (GHG) emissions toward half by through new ways of building control panels, that key figure of the manufacturing site.



## Process

Realize greatly reduces design/ manufacturing work

Innovation for design, building Process

Further Evolution for Panels

## Panel

Realize compact & highly reliable control panels

Building sustainable control panels

Creating green control panels

Simple & Easy People

## Green

Reducing GHG emission of control panels to achieve carbon neutrality

## People

Provide reliable and comfortable manufacturing for all people who deal with control panels

## Integrating green perspectives into Value Design

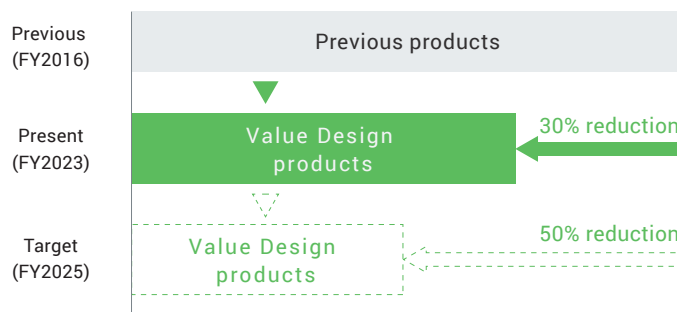
Value Design for Panel (Value Design) is the common concept shared across OMRON's in-panel product specifications to deliver new value to your control panels.

This Value Design also integrate environment consideration concept that enable earth and user-friendly control panel building.



- 1 ..... Unified height & slim size\*<sup>1</sup>
- 2 ..... Side-by-side mounting at (55°C) ambient temperature\*<sup>2</sup>
- 3 ..... Unique Push-In Plus technology\*<sup>1</sup>
- 4 ..... Front-in and front-release wiring
- 5 ..... eCAD library
- 6 ..... Certification for CE, UL, and CSA
- 7 ..... **Green features that save energy and resources\*<sup>3</sup>**

CFP of control panel (total GHG emissions)\*<sup>4</sup>



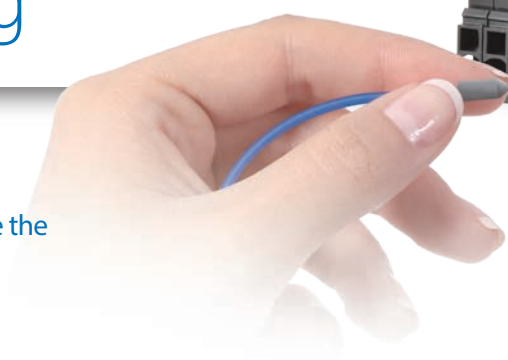
\*1. Expect for some products

\*2. Side-by-side mounting is possible in the same series

\*3. Greener design compared to previous (2016) products

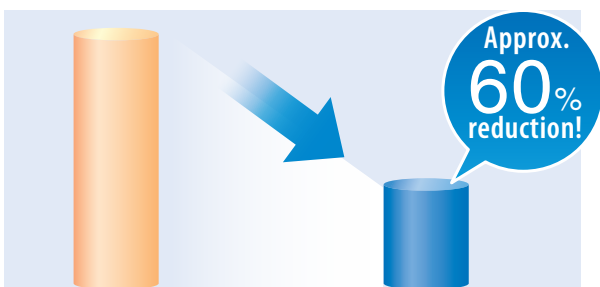
\*4. CFP (carbon footprint) of control panel is a calculation result of referring the life cycle assessment method that based on international standards ISO14067 which define CO<sub>2</sub> quantitative conversion of the environmental burden at every stage, from manufacturing, transportation, use, and disposal of the control panel (product). According to OMRON investigation in May 2023.

# 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



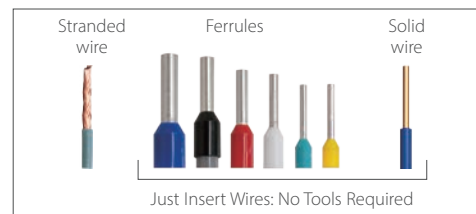
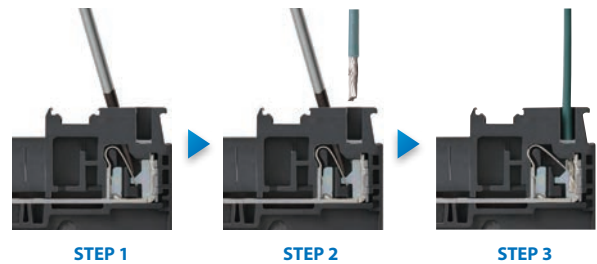
Conventional screw terminal blocks OMRON Push-In Plus terminal block

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

## Wiring Possible with Stranded Wires

You can insert wires with pin terminals or ferrules, or you can also insert solid wires or stranded wires.

When a stranded wire is used: 3 Steps



## 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 <sup>2</sup> )	<b>125 N</b>	112 N

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

## No Retightening Required

The retightening that is required for screw terminal blocks is not required for Push-in Plus terminal blocks. Your work load is reduced not only when wiring, but also for inspections, delivery (shipping), and maintenance.



## Screwdriver Held in Place to Free Both Your Hands

Optimized shape to hold the screwdriver was created by the resin parts and the spring. Work goes smoothly when connecting stranded wires directly to the terminal because it's easier to aim at the desired terminal.



## Safety

The structure provides finger protection so that your fingers never touch conductive parts.

# Minimum Width of 3.5 mm to Help Downsize Control Panels

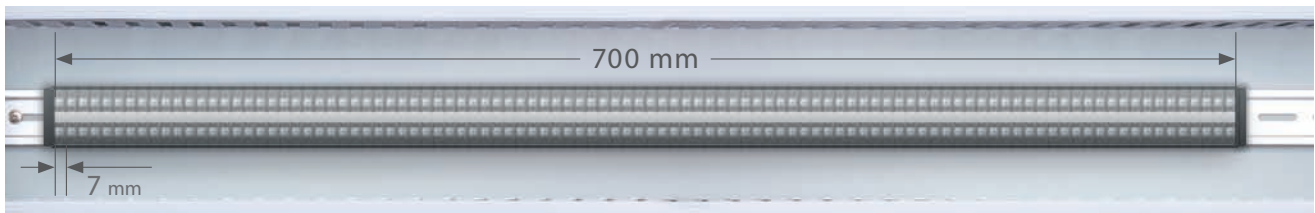
Terminal blocks are the most numerous, most space-eating components in control panels. OMRON has achieved the top class\* in the industry for downsizing.

\*According to OMRON investigation in March 2017.

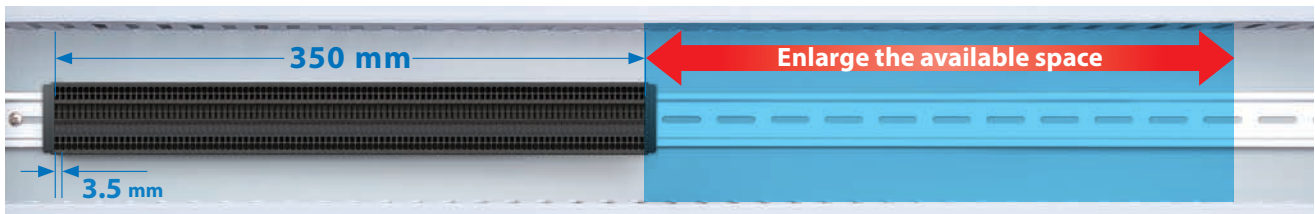
Approx.  
**50%**  
More Compact

## Terminal Block with 100 Poles

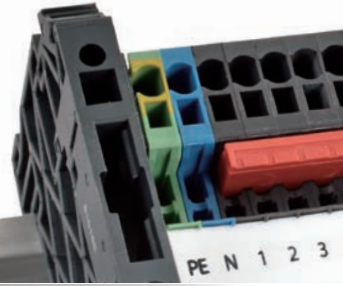
Commercially available Phillips screw terminal blocks 7-mm pitch



XW5T Push-In Plus Terminal Blocks 3.5-mm pitch (1 tier)



# Extensive Product Lineup with Push-in Plus Terminal Blocks to Efficiently Build Control Panels



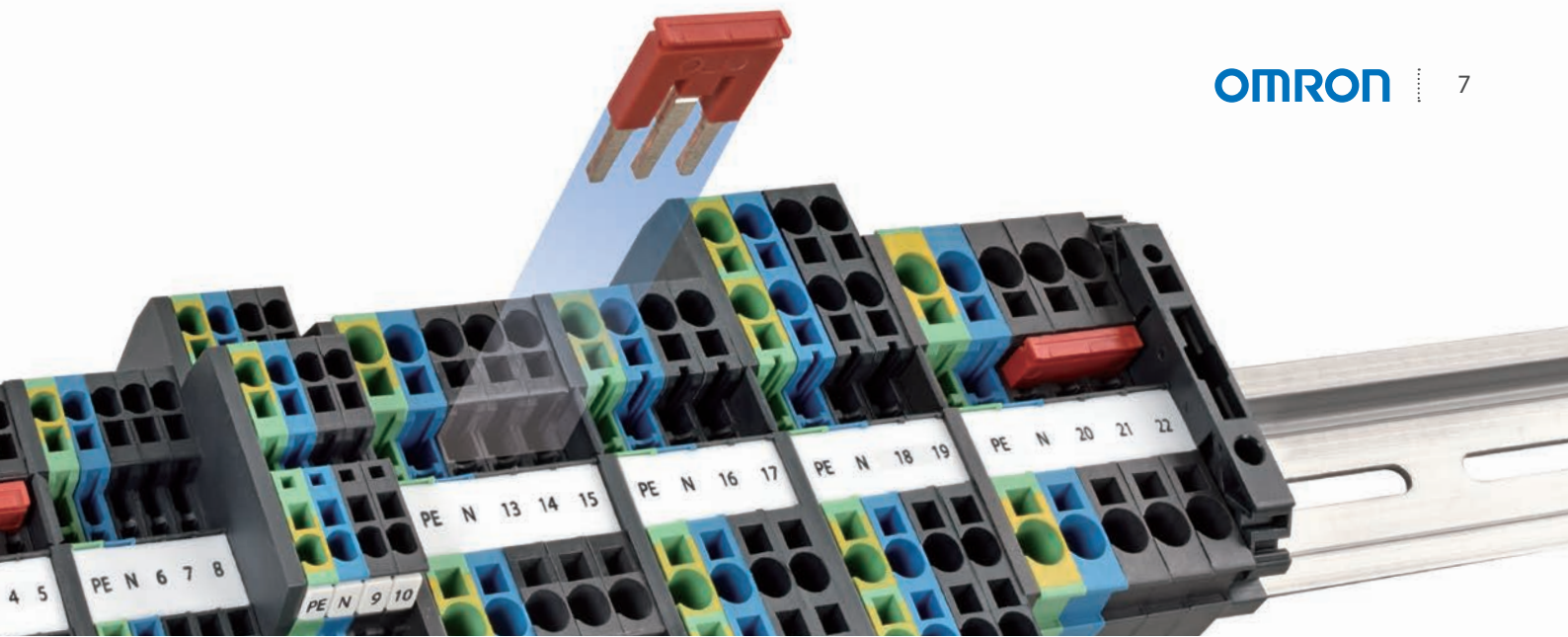
## Product Lineup

### Terminal Blocks with Width of 3.5 mm









	Standard terminals	Multi conductor terminals		Multi tiers terminal
Model	XW5T-P1.5-1.1-1 XW5T-P1.5-1.1-1BL XW5G-P1.5-1.1-1	XW5T-P1.5-1.2-1 XW5T-P1.5-1.2-1BL XW5G-P1.5-1.2-1	XW5T-P1.5-2.2-1 XW5T-P1.5-2.2-1BL XW5G-P1.5-2.2-1	XW5T-P1.5-1.1-2 XW5T-P1.5-1.1-2BL XW5G-P1.5-1.1-2
Appearance and internal wiring	1tier 1:1 	1tier 1:2 	1tier 2:2 	2tier 1:1 
Maximum applicable wire size (Stranded wire)	1.5 mm <sup>2</sup> (AWG16)			
Rated current	17.5 A			
Colors	Dark gray                     Blue                     Green/yellow stripes (for ground)			
Standards				

### Terminal Blocks with Width of 5.2 mm



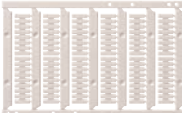



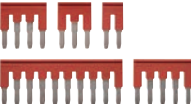

	Standard terminals	Multi conductor terminals		Multi tiers terminal
Model	XW5T-P2.5-1.1-1 XW5T-P2.5-1.1-1BL XW5G-P2.5-1.1-1	XW5T-P2.5-1.2-1 XW5T-P2.5-1.2-1BL XW5G-P2.5-1.2-1	XW5T-P2.5-2.2-1 XW5T-P2.5-2.2-1BL XW5G-P2.5-2.2-1	XW5T-P2.5-1.1-2 XW5T-P2.5-1.1-2BL XW5G-P2.5-1.1-2
Appearance and internal wiring	1tier 1:1 	1tier 1:2 	1tier 2:2 	2tier 1:1 
Maximum applicable wire size (Stranded wire)	2.5 mm <sup>2</sup> (AWG14)			
Rated current	24 A			22 A
Colors	Dark gray                     Blue                     Green/yellow stripes (for ground)			
Standards				



### Terminal Blocks with Width of 6.2 mm

	Standard terminals	Multi conductor terminals		Multi tiers terminal
Model	XW5T-P4.0-1.1-1 XW5T-P4.0-1.1-1BL XW5G-P4.0-1.1-1	XW5T-P4.0-1.2-1 XW5T-P4.0-1.2-1BL XW5G-P4.0-1.2-1	XW5T-P4.0-2.2-1 XW5T-P4.0-2.2-1BL XW5G-P4.0-2.2-1	XW5T-P4.0-1.1-2 XW5T-P4.0-1.1-2BL XW5G-P4.0-1.1-2
Appearance and internal wiring	1tier 1:1 	1tier 1:2 	1tier 2:2 	2tier 1:1 
Maximum applicable wire size (Stranded wire)	4.0 mm <sup>2</sup> (AWG12)			
Rated current	32 A			28 A
Colors	 Dark gray  Blue  Green/yellow stripes (for ground)			
Standards				

### Accessories

	End Cover	End Brackets	Labels	Short Bars	Separator Plates
Application	Electric shock prevention	Holding Terminal Blocks	Identifying wiring (top or side surfaces)*	Crossover wiring	Creating insulation distance
Model	XW5E	XW5Z-EP6	XW5Z	XW5S	XW5Z-EP12
Appearance				Product color    	

\*You can also use commercially available nameplates that are 9.5 mm wide and 0.5 mm thick (except on Two-tier Terminal Blocks with a width of 3.5 mm). Refer to the *XW5T DIN Track Push-in Terminal Blocks Datasheet* (Cat. No. G124) for details.

**Note: Do not use this document to operate the Unit.**

**OMRON Corporation Industrial Automation Company**

**Kyoto, JAPAN**

**Contact : [www.ia.omron.com](http://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.**

438B Alexandra Road, #08-01/02 Alexandra  
Technopark, Singapore 119968

Tel: (65) 6835-3011 Fax: (65) 6835-3011

**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) 21-6023-0333 Fax: (86) 21-5037-2388

**Authorized Distributor:**

©OMRON Corporation 2016-2023 All Rights Reserved.  
In the interest of product improvement,  
specifications are subject to change without notice.

**CSM\_2\_1**

**Cat. No. G123-E1-03** 1123 (0316)