

# Efficient control panel products start with the terminals

XW5T-P DIN Track Terminal Blocks



- Push-In Plus terminal blocks for easy wiring
- Minimum width of 3.5 mm to help downsize control panels
- Extensive lineup now includes 5.2mm and 6.2mm versions

# Control Panels: The Heart of Manufacturing Sites

Recent evolution of control panel design and manufacturing is benefiting panel builders as well as end users and machine builders. The end result is an evolution within production facilities that reduces total cost of ownership.

With the goal of making panel manufacturing simpler and more efficient, we have invented new techniques and technologies for panel design, panel manufacturing processes, and wiring. Our Value Design for Panel concept guides the development of control panel products that reduce time and labor costs, power consumption, and control cabinet size.

## Value Design for Panel Concept Advantages



Specifications for Value Design products focus on uniform mounting height and depth, reduced overall volume and side-by-side mounting to make room for more components. Wiring capabilities without tools using front access Push-In Plus wiring terminals decreases installation time.

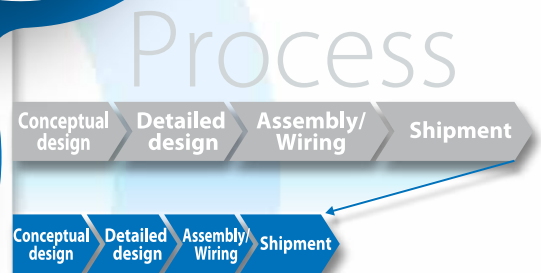
A panel built around Value Design Concept products provides competitive advantages for panel builders, machine builders and end users. Combining multiple products that share the Value Design concept increases the value to all stakeholders involved with control panel design and use.

Innovation for  
panel building  
**Process**

Further Evolution  
for  
**Panels**

**New Value  
For  
Control Panels**

Simple & Easy  
for panel business  
**People**



Panels

People



# More Efficient Control Panel Production Starts with the Terminals

OMRON Products from Terminal Blocks to Controllers Let You Efficiently Build Control Panels

We will help you downsize control panels with OMRON control panel components that connect to terminal blocks. We can also help you reduce terminal preparation, wiring work and stock management work by maximizing the use of the components to unify tools and wires.

Everything from DIN Track Terminal Blocks to Controllers Available with Push-in Plus Terminal Blocks

Controllers / I/O Units



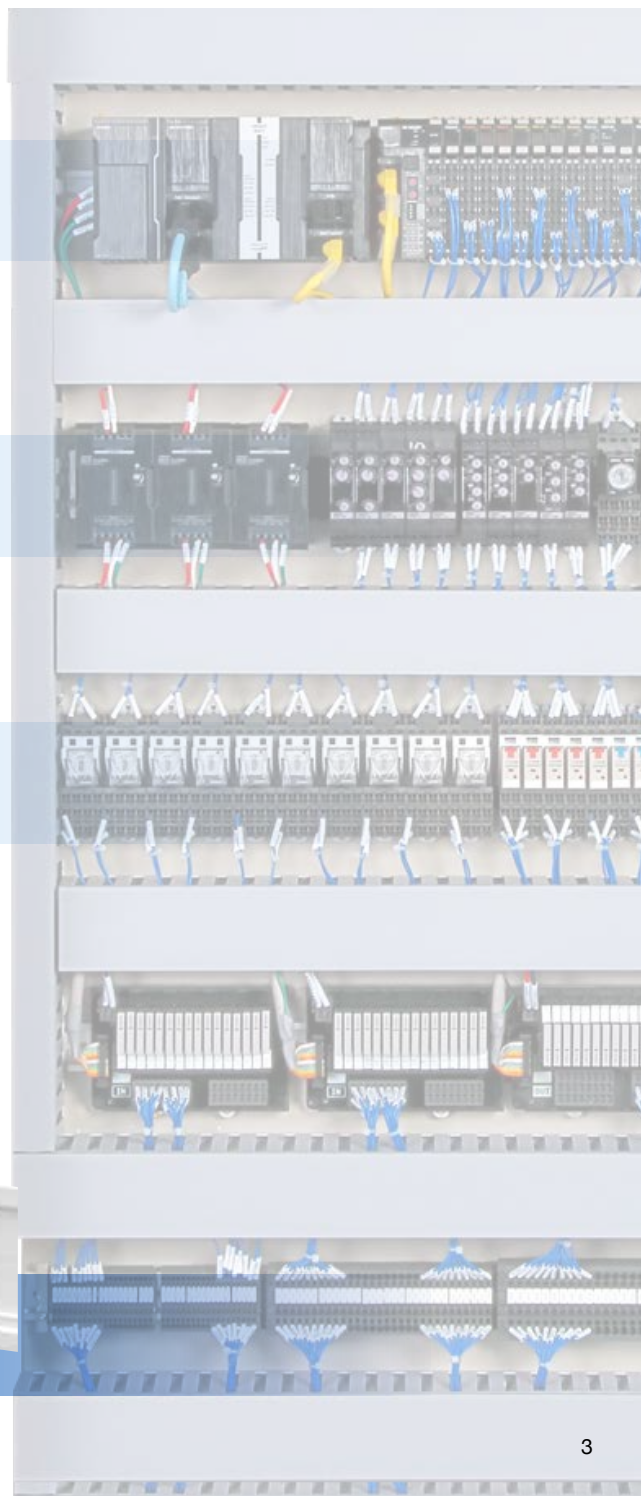
Power Supplies



Relays



DIN Track Terminal Blocks XW5T





# 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.

## Easy to Insert

OMRON's Push-In Plus terminal blocks are as easy as inserting 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.

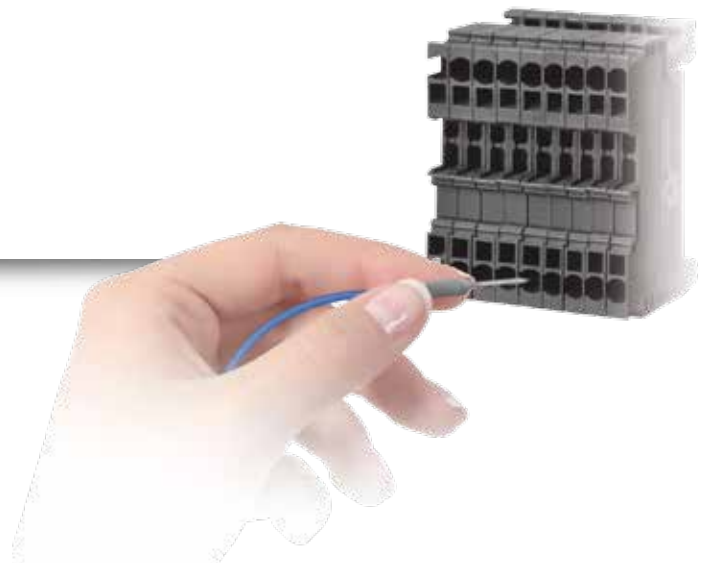
IEC standard (cable diameter)	Push-In Plus terminal block	Screw terminal block
20 N min. (AWG20, 0.5 mm <sup>2</sup> )	<b>125 N</b>	112 N

\*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.

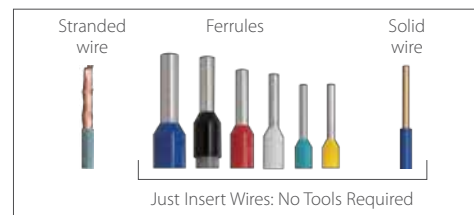
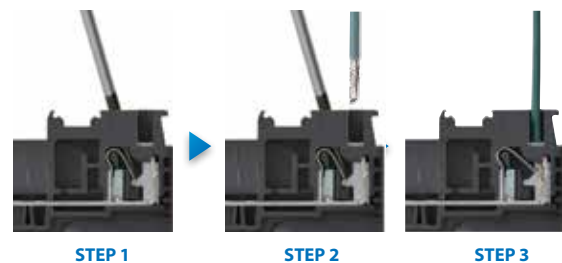
Your work load is reduced not only when wiring, but also for inspections, delivery (shipping), and maintenance.



## Wiring Possible with Stranded Wires

You can insert ferrules, solid wires, or stranded wires.

When a stranded wire is used: 3 Steps



## 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, and take up the most space in control panels.

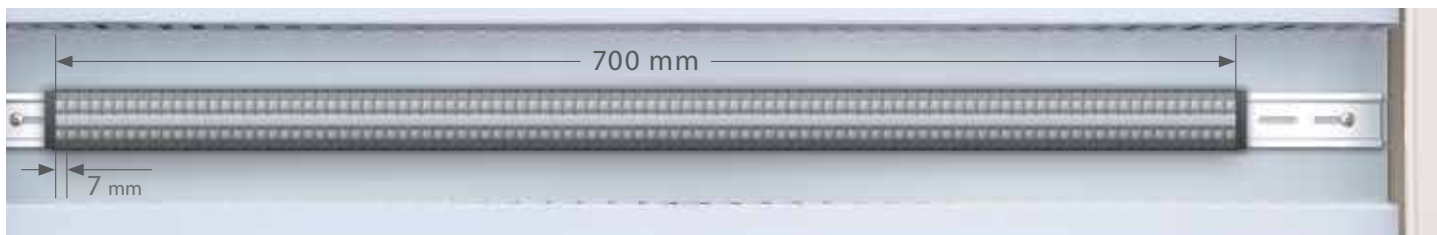
OMRON has achieved the top class\* in the industry for downsizing.

\*According to OMRON investigation in March 2017.

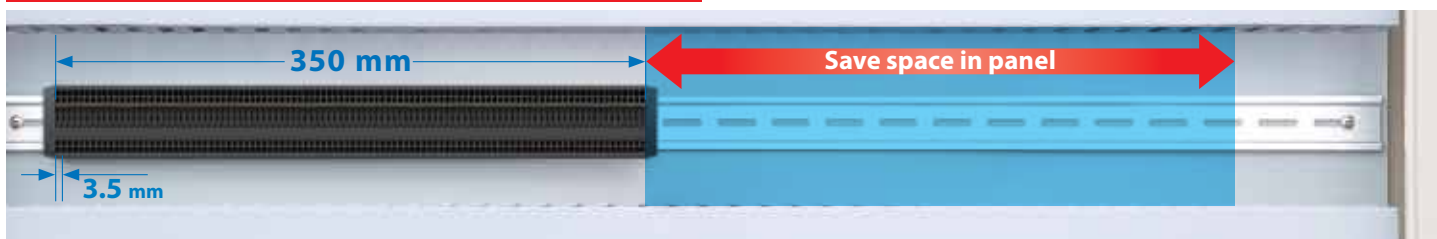
Terminal Block with 100 Poles

Approx.  
**50%**  
More Compact

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

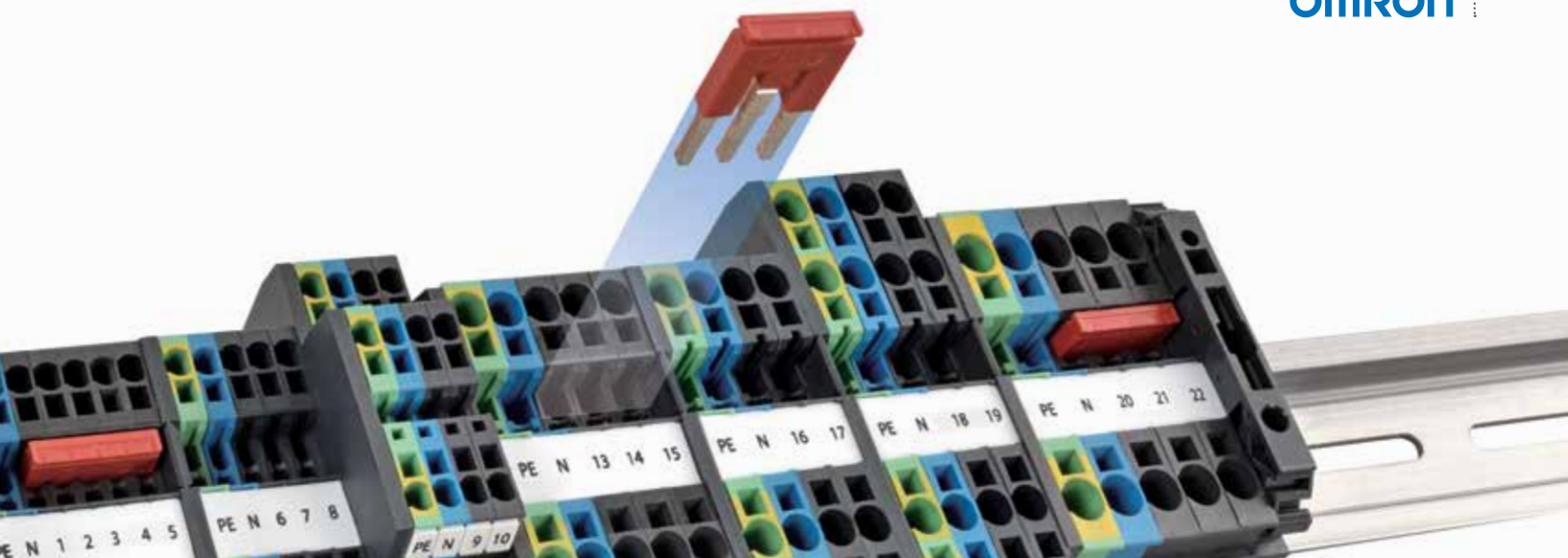
## Product Lineup

### 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	1.5 mm <sup>2</sup> (AWG14)			
Rated current	17.5 A			
Colors	 Dark gray  Blue  Green/yellow stripes (for ground)			
Standards				

### Terminal Blocks with Width of 5.2 mm



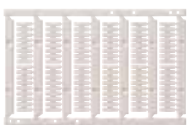



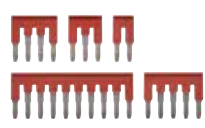

	Standard terminals	Multi conductor terminals		Multi tiers terminal
Model	XW5T-P2.5-1.1-1 XW5T-P2.5-1.1-1BL XW5G-P2.5-1.1-1	XW5T-P2.5-1.2-1 XW5T-P2.5-1.2-1BL XW5G-P2.5-1.2-1 <b>NEW</b>	XW5T-P2.5-2.2-1 XW5T-P2.5-2.2-1BL XW5G-P2.5-2.2-1 <b>NEW</b>	XW5T-P2.5-1.1-2 XW5T-P2.5-1.1-2BL XW5G-P2.5-1.1-2 <b>NEW</b>
Appearance and internal wiring	1tier 1:1 	1tier 1:2 	1tier 2:2 	2tier 1:1 
Maximum applicable wire size	4.0 mm <sup>2</sup> (AWG12)			
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
		<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
Appearance and internal wiring	1tier 1:1 	1tier 1:2 	1tier 2:2 	2tier 1:1 
Maximum applicable wire size	6.0 mm <sup>2</sup> (AWG10)			
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* (G28I-E-02) 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



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  
ES5C-B/ES5C-B

For learn more about Omron's Panel Building Solutions visit:  
<https://industrial.omron.us/en/solutions/panel-building>



Innovation in Control Panel Building  
Cat. No. Y218

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