

# Pushbutton Switches

Push-In Plus Terminal Block Series

A22N-P/A30N-P (Pushbutton Switches, Selector Switches)

M22N-P (Indicators)

Bringing Advances to Control Panels  
with Labor-saving and Downsizing



- Improved workability in wiring and installation
- Push-In Plus terminal blocks for easy wiring
- Changes to the wiring direction and a shorter body provide freedom in the layout

# 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.

OMRON will continue to achieve a control panel evolution and process innovation through many undertakings starting with the shared Value Design for Panel \*1 concept for the specifications of products used in control panels.



### \*1 Value Design for Panel

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.

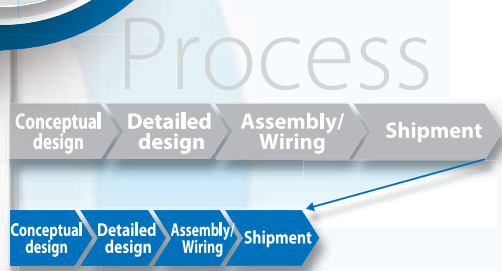
Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

Further Evolution  
for  
**Panels**

**New Value  
For  
Control Panels**

Innovation for  
panel building  
**Process**

Simple & Easy  
for panel business  
**People**



Panels

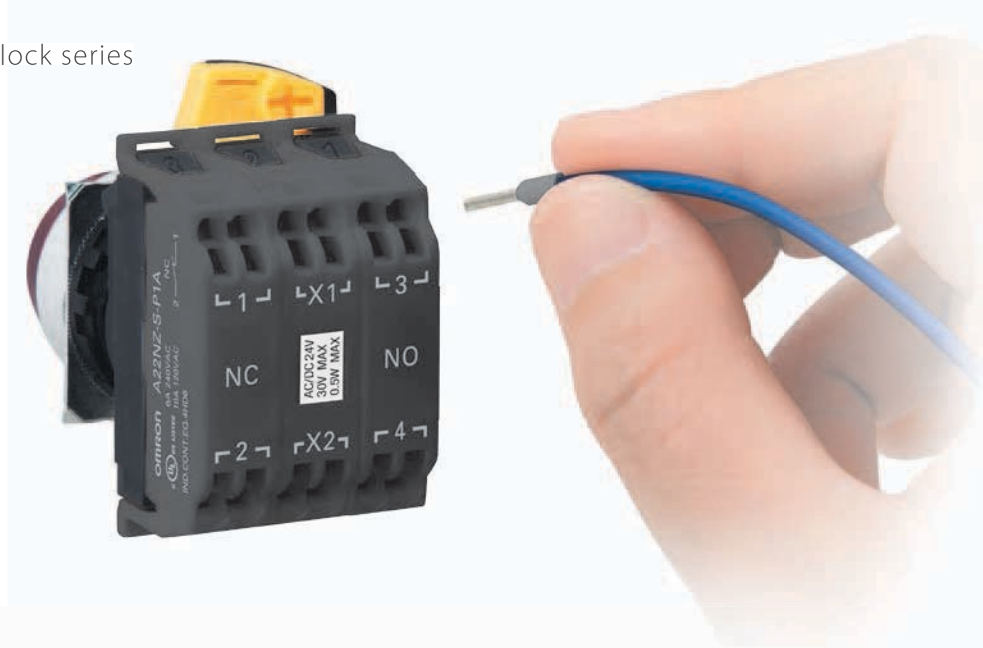
People



# Bringing Advances to Control Panels with Labor-saving and Downsizing

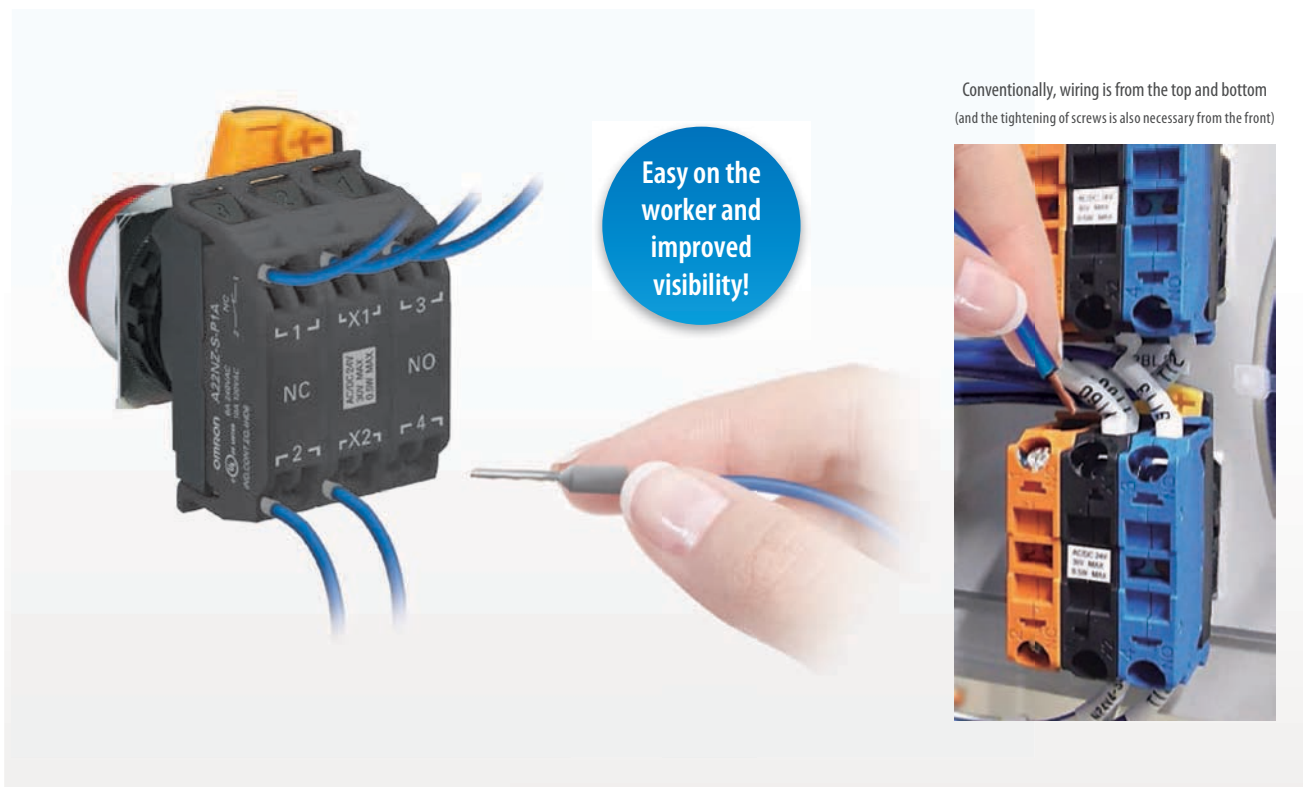
## The Push-In Plus Terminal Block Series Now Contains Pushbutton Switches

The OMRON Push-In Plus terminal block series of products has now been advanced further with the addition of new Pushbutton Switches to the 22 dia./30 dia. series. These products offer new value through further reductions to the work necessary and a more compact design.



# Improved Workability in Wiring and Installation

Rear Insertion Is Used, So the Wiring Part Can Be Checked Directly and Insertion Is Easy



## Safety Locked by Sliding One Piece during the Installation

Only one step is required for a safety lock.  
Only two steps are required for easy removal.



# 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 to an earphone jack. They help reduce the work load and improve wiring quality.

### 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.



### Held Firmly in Place

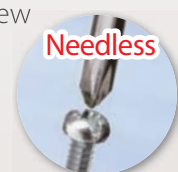
Even though less insertion force is required, the wires are held firmly in place. The advanced mechanism design technology and manufacturing technology produced a spring that ensures better workability and reliability.

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

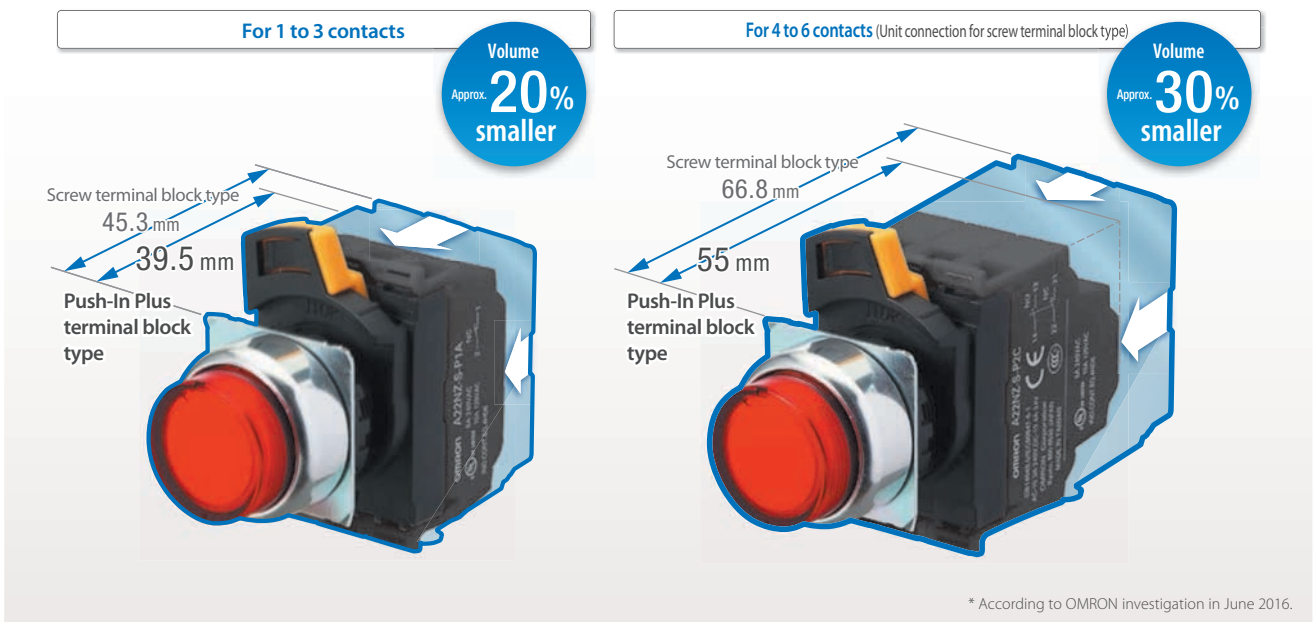
Tightening screws is necessary for screw terminal blocks, but with Push-In Plus terminal blocks, there is no need for retightening. This reduces works for wirings, inspections, delivery (shipping), or maintenance.



# Changes to the Wiring Direction and a Shorter Body Provide Freedom in the Layout

## The Body Approximately 20% Shorter Than That of the Screw Terminal Block Type for Thinner Control Panels

We have taken every effort to reduce the body length in the design and realized a short body that is in the smallest class\* in the industry. This contributes to reductions of the panel thickness.



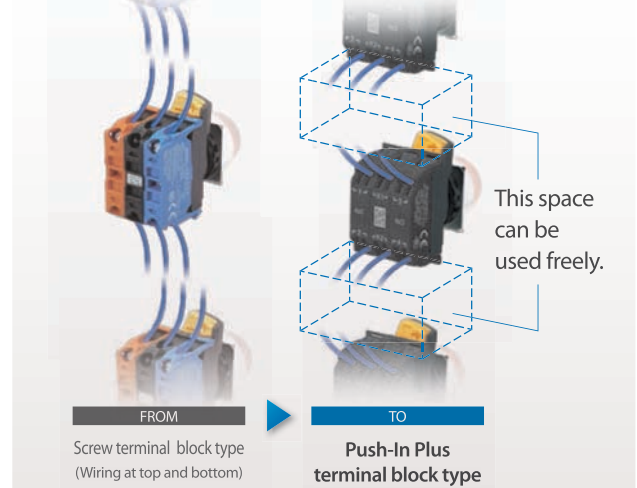
## Lighting Units for Lighted Switches are the Same Size as Contact Blocks

The size of Lighting Units is reduced in the same ways as Contact Blocks.



## No Need to Secure Space Above and Below for Wiring

Rear insertion is used to improve the freedom in the design.



## Product Lineup


### Set Model Numbers

Type	Size	Push-In Plus terminal block type		Screw terminal block type		
Pushbutton Switch	22 dia.	A22NN-P/A22NL-P			A22NN/A22NL	
	30 dia.	A30NN-P/A30NL-P			A30NN/A30NL	
Selector Switch	22 dia.	A22NS-P/A22NW-P			A22NS/A22NW	
	30 dia.	A30NS-P/A30NW-P			A30NS/A30NW	
Key-type Selector Switch	22 dia.	A22NK-P			A22NK	
	30 dia.	A30NK-P			A30NK	
Indicator	22 dia.	M22N-P			M22N	

### Button Profile

	Bezel	Button			
		Flat	Projected	Full-guard	Mushroom
A22N	Plastic				
	Brushed metal				
	Metal			—	
A30N	Brushed metal				

### Color Variation on Button

		Red	Green	Yellow	White	Blue	Black	Orange	Opaque white
Non-lighted Switches	Opaque							—	—
	Transparent						—		—
Lighted Switches	When not lit						—		
	When lit						—		

# 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

Refer to the A22N/M22N/A30N Pushbutton Switches/Selector Switches/Indicators Datasheet (Cat. No. A254) for details.

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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