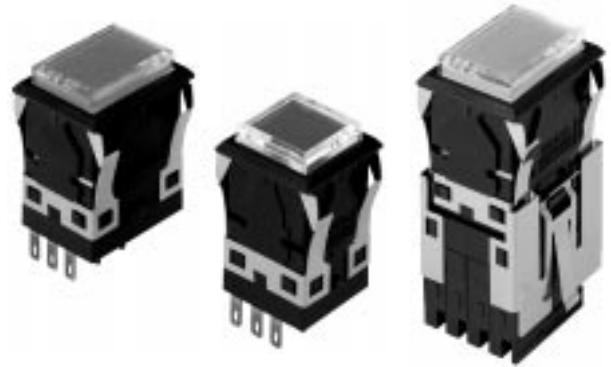


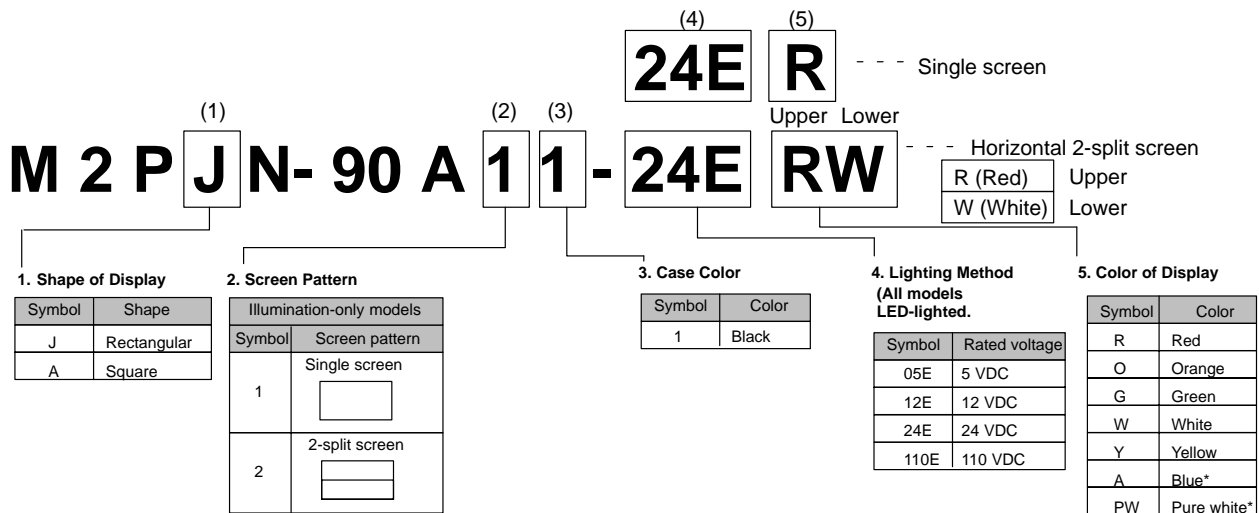
Indicators with same design as A3P□N Pushbutton Switches. Visibility improved with built-in LED.

- Energy saved and visibility improved with super-bright LEDs.
- Short body is 25% the length of conventional models.
- Color selection increased to seven.
- 110-VDC model incorporating voltage-reduction circuit added to lineup.
- Wiring work reduced by two thirds with Screw-Less Clamp.



Ordering Information

■ Model Number Legend



* Enquire separately about blue or pure-white 110-VDC models.

■ Comparison of New and Conventional Models (Representative Examples)

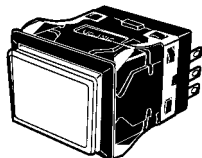
Item		Model				
		M2P□N (new models)		M2P (conventional models)		
Shape of Display		Rectangular	Square	Rectangular	Square	Round
Lighting method	Built-in LED	Yes	Yes	No	No	No
	LED lamp	No	No	Yes	Yes	Yes
	Incandescent lamp	No	No	Yes	Yes	Yes
Screen pattern	Single screen	Yes	Yes	Yes	Yes	Yes
	2-split screen	Yes	Yes	Yes	Yes	Yes
	Other screen patterns	No	No	Yes	Yes	Yes
Socket	Screw-Less Clamp	Yes	Yes	No	No	No
	Wire-wrap terminals	No	No	Yes	Yes	Yes
	PCB terminals	No	No	Yes	Yes	Yes
	Solder terminals	No	No	Yes	Yes	Yes

■ Ordering as a Set

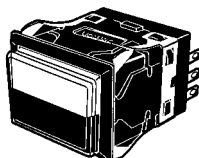
The model numbers used to order sets of Units are given in the following tables. One set comprises the Display and Socket Unit.

M2PJN (Rectangular) Models

Single Screen Models



Horizontal 2-split Screen Models



Single Screen Models

Lighting method	Case color	Black	Display color symbol
LED	5 VDC	M2PJN-90A11-05E□	R O G W Y A PW
	12 VDC	M2PJN-90A11-12E□	
	24 VDC	M2PJN-90A11-24E□	
	110 VDC	M2PJN-90A11-110E□	

Note: Enter the desired color symbol for the Display in □. (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

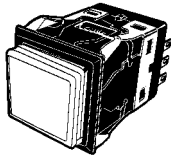
Horizontal 2-split Screen Models

Lighting method	Case color	Black	Display color symbol
LED	5 VDC	M2PJN-90A21-05E□□	R O G W Y A PW
	12 VDC	M2PJN-90A21-12E□□	
	24 VDC	M2PJN-90A21-24E□□	
	110 VDC	M2PJN-90A21-110E□□	

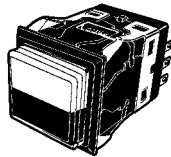
Note: Enter the desired color symbol for the Display in □. (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

M2PAN (Square) Models

Single Screen Models



Horizontal 2-split Screen Models



Single Screen Models

Lighting method	Case color	Black	Display color symbol
LED	5 VDC	M2PAN-90A11-05E□	R O G W Y A PW
	12 VDC	M2PAN-90A11-12E□	
	24 VDC	M2PAN-90A11-24E□	
	110 VDC	M2PAN-90A11-110E□	

Note: Enter the desired color symbol for the Display in □. (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

Horizontal 2-split Screen Models

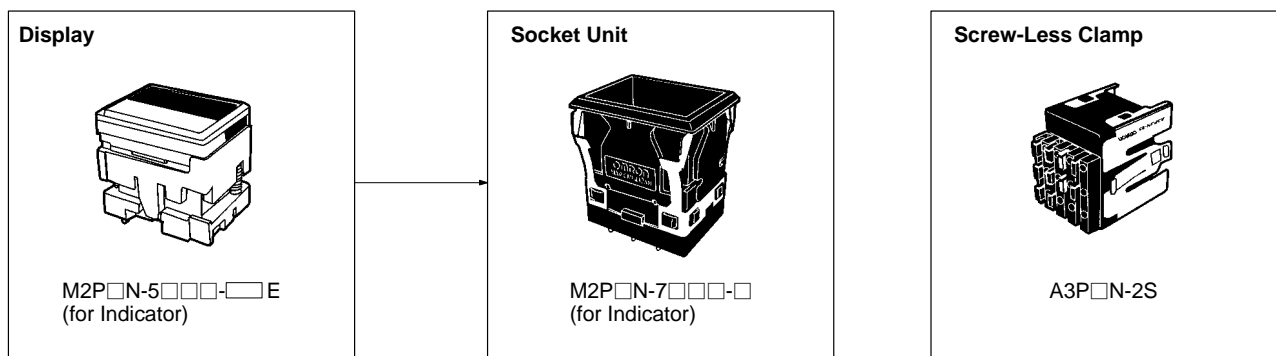
Lighting method	Case color	Black	Display color symbol
LED	5 VDC	M2PAN-90A21-05E□□	R O G W Y A PW
	12 VDC	M2PAN-90A21-12E□□	
	24 VDC	M2PJAN-90A21-24E□□	
	110 VDC	M2PJAN-90A21-110E□□	

Note: Enter the desired color symbol for the Display in □. (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

■ Ordering Individually

















Displays and Socket Units can be ordered separately. Also, store the parts as spares for maintenance and repairs.

LED-lighted Models (LED is built-in.)



Display

LED-lighted Models (LED is built-in.)

Appearance	Split-screen color (color symbol)	White (W)	Red (R)	Green (G)	Yellow (Y)	Blue (A)	Orange (O)	Pure white (PW)	
Rectangular models	Single screen		M2PJN-5701 -□□E	M2PJN-5702 -□□E	M2PJN-5703 -□□E	M2PJN-5704 -□□E	M2PJN-5705 -□□E	M2PJN-5706 -□□E	M2PJN-5707 -□□E
	Horizontal 2-split screen		M2PJN-5711 -□□E	M2PJN-5712 -□□E	M2PJN-5713 -□□E	M2PJN-5714 -□□E	M2PJN-5715 -□□E	M2PJN-5716 -□□E	M2PJN-5717 -□□E
			M2PJN-5721 -□□E	M2PJN-5722 -□□E	M2PJN-5723 -□□E	M2PJN-5724 -□□E	M2PJN-5725 -□□E	M2PJN-5726 -□□E	M2PJN-5727 -□□E
			M2PJN-5731 -□□E	M2PJN-5732 -□□E	M2PJN-5733 -□□E	M2PJN-5734 -□□E	M2PJN-5735 -□□E	M2PJN-5736 -□□E	M2PJN-5737 -□□E
			M2PJN-5741 -□□E	M2PJN-5742 -□□E	M2PJN-5743 -□□E	M2PJN-5744 -□□E	M2PJN-5745 -□□E	M2PJN-5746 -□□E	M2PJN-5747 -□□E
			M2PJN-5751 -□□E	M2PJN-5752 -□□E	M2PJN-5753 -□□E	M2PJN-5754 -□□E	M2PJN-5755 -□□E	M2PJN-5756 -□□E	M2PJN-5757 -□□E
			M2PJN-5761 -□□E	M2PJN-5762 -□□E	M2PJN-5763 -□□E	M2PJN-5764 -□□E	M2PJN-5765 -□□E	M2PJN-5766 -□□E	M2PJN-5767 -□□E
			M2PJN-5771 -□□E	M2PJN-5772 -□□E	M2PJN-5773 -□□E	M2PJN-5774 -□□E	M2PJN-5775 -□□E	M2PJN-5776 -□□E	M2PJN-5777 -□□E
Square models	Single screen models		M2PAN-5701 -□□E	M2PAN-5702 -□□E	M2PAN-5703 -□□E	M2PAN-5704 -□□E	M2PAN-5705 -□□E	M2PAN-5706 -□□E	M2PAN-5707 -□□E
	Horizontal 2-split screen		M2PAN-5711 -□□E	M2PAN-5712 -□□E	M2PAN-5713 -□□E	M2PAN-5714 -□□E	M2PAN-5715 -□□E	M2PAN-5716 -□□E	M2PAN-5717 -□□E
			M2PAN-5721 -□□E	M2PAN-5722 -□□E	M2PAN-5723 -□□E	M2PAN-5724 -□□E	M2PAN-5725 -□□E	M2PAN-5726 -□□E	M2PAN-5727 -□□E
			M2PAN-5731 -□□E	M2PAN-5732 -□□E	M2PAN-5733 -□□E	M2PAN-5734 -□□E	M2PAN-5735 -□□E	M2PAN-5736 -□□E	M2PAN-5737 -□□E
			M2PAN-5741 -□□E	M2PAN-5742 -□□E	M2PAN-5743 -□□E	M2PAN-5744 -□□E	M2PAN-5745 -□□E	M2PAN-5746 -□□E	M2PAN-5747 -□□E
			M2PAN-5751 -□□E	M2PAN-5752 -□□E	M2PAN-5753 -□□E	M2PAN-5754 -□□E	M2PAN-5755 -□□E	M2PAN-5756 -□□E	M2PAN-5757 -□□E
			M2PAN-5761 -□□E	M2PAN-5762 -□□E	M2PAN-5763 -□□E	M2PAN-5764 -□□E	M2PAN-5765 -□□E	M2PAN-5766 -□□E	M2PAN-5767 -□□E
			M2PAN-5771 -□□E	M2PAN-5772 -□□E	M2PAN-5773 -□□E	M2PAN-5774 -□□E	M2PAN-5775 -□□E	M2PAN-5776 -□□E	M2PAN-5777 -□□E

Note: 1. Enter the voltage to be used in the □□ at the end of the model number.

Examples of voltages used:

5 V = □05□E

12 V = □12□E

24 V = □24□E

110 V = □110□E

2. For the color of the shaded part, select the model according to the colors given at the top of the table.

3. A cap, legend plate (transparent), colored plate, white plunger case, and LED (with a current-limiting resistor) are built into the standard lighting unit.

4. Split-screen coloring configurations are given with the **OMRON** mark on the Socket Units facing down.

Socket Unit

Rectangular model	Square model
M2PJN-7010-1	M2PAN-7010-1

Screw-Less Clamp

Rectangular model	Square model
A3PJN-2S	A3PAN-2S

■ Accessories

Accessories are the same as those for the A3P□N. Refer to page 278.

Specifications

■ LED Ratings

Model		M2PJN		M2PAN	
		Rated currency			
Applicable voltage	Rated voltage	Single screen	2-split screen	Single screen	2-split screen
5 DC ±5%	5 VDC	20 mA	10 mA x 2	20 mA	10 mA x 2
12 DC ±5%	12 VDC	10 mA	10 mA x 2	10 mA	10 mA x 2
24 DC ±5%	24 VDC	10 mA	10 mA x 2	10 mA	10 mA x 2
110 DC ±5%	110 VDC	2.5 mA	2.5 mA x 2	2.5 mA	2.5 mA x 2


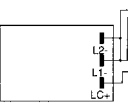
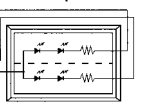
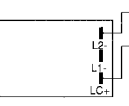
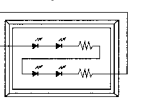
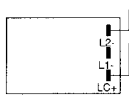
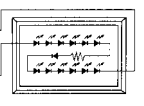

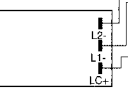
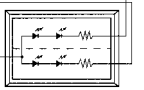
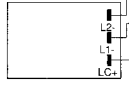
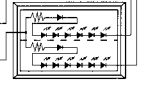

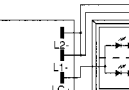
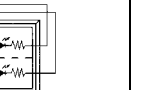
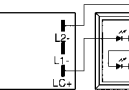
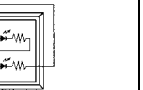
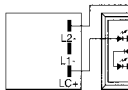
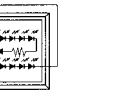

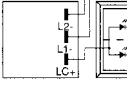
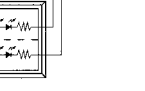
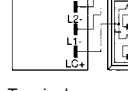

■ Characteristics

Ambient operating temperature	LED-lighted models: -10°C to 40°C (with no icing or condensation)
Ambient operating humidity	35% to 85%
Ambient storage temperature	-25°C to 65°C

Operation

■ Terminals connections

LED-lighted Models

Rated voltage		5 VDC		12 VDC/24 VDC		110 VDC	
Model	Screen pattern	Bottom view	Top view	Bottom view	Top view	Bottom view	Top view
M2PJN	Single screen 	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block
	Horizontal 2-split screen 	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block		
M2PAN	Single screen 	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block
	Horizontal 2-split screen 	 Terminal arrangement	 Lighting block	 Terminal arrangement	 Lighting block		

■ Panel Cutout

(If using a Switch Guard or Seal Cover, refer to the panel cutout diagrams on page 283.)

M2PJN (Rectangular) Models

Classification		Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting (Horizontal)			Panel cutout spacing between rows of Units:
	Multiple mounting (Horizontal)			
	Individual mounting (Vertical)	 Mount to long mounting plate before use.		
	Multiple mounting (Vertical)	 Mount to long mounting plate before use.		
Barrier mount models	Individual mounting (Horizontal)			Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)
	Multiple mounting (Horizontal)			
	Individual mounting (Vertical)	 Mount to long mounting plate before use.		
	Multiple mounting (Vertical)	 Mount to long mounting plate before use.		

- Note:**
1. n: Number of Units
 2. Recommended panel thickness: 1 to 5 mm
 3. Mount the panel before mounting the Switch Guard.
 4. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

M2PAN (Square) Models

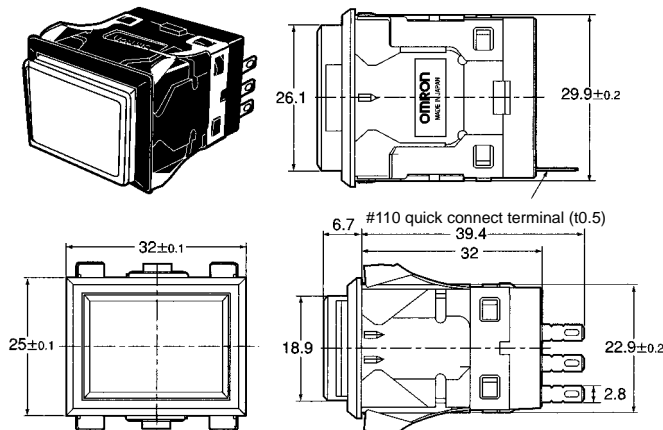
Classification		Mounting design	Panel cutout	Remarks
Flange mount models	Individual mounting			Panel cutout spacing between rows of Units:
	Multiple mounting			
Barrier mount models	Individual mounting			Panel cutout spacing between rows of Units: (Dotted line indicates the position of each mounting barrier.)
	Multiple mounting			

- Note:**
1. n: Number of Units
 2. Recommended panel thickness: 1 to 5 mm
 3. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

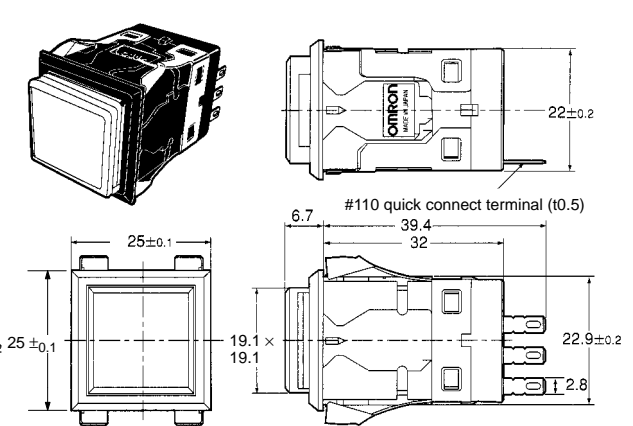
Dimensions

Note: All units are in millimeters unless otherwise indicated.

M2PJN (Rectangular) Models

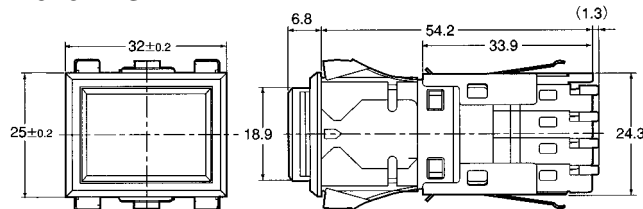


M2PAN (Square) Models

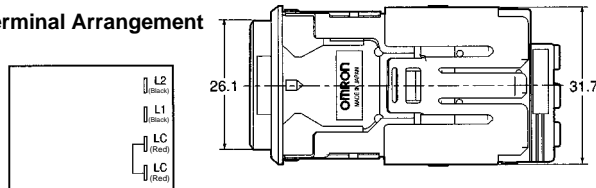


• Screw-Less Clamp Mounting Dimensions

Rectangular Models A3PJN-2S

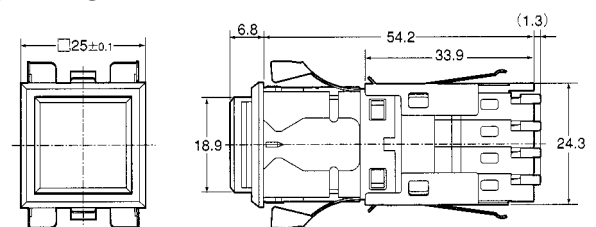


Terminal Arrangement

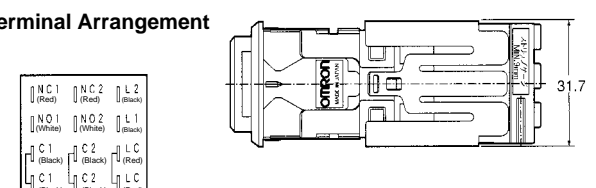


Note: The color of the release buttons are indicated in parentheses.

Square Models A3PAN-2S



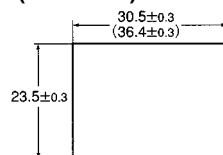
Terminal Arrangement



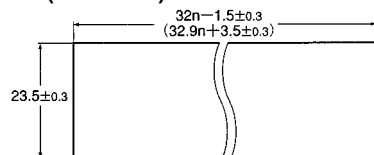
Note: The color of the release buttons are indicated in parentheses.

Panel Cutouts

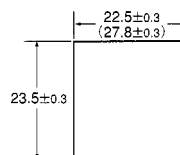
Individual Mounting (Horizontal)



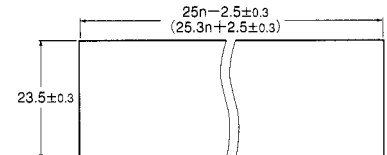
Multiple Mounting (Horizontal)



Panel Cutouts Individual Mounting



Multiple Mounting



- Note:
1. Recommended panel thickness: 1 to 5 mm
 2. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

Wiring Procedure for Screw-Less Clamps Connecting Wires

1. Strip the ends of the wire (10 mm ± 1 mm).
2. Twist loose strands together and straighten the end.
3. Press the release button on the side of the hole.
4. Insert the wire into the hole.
5. Let go of the release button.
6. Pull on the wire gently to make sure that it is inserted securely.

Removing Wires

1. Press the release button on the side of the hole.
2. Pull out the wire.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. A138-E1-1