

# Indicator (Square) Ultra Bright LED Type M2P

# Large Square-bodied Indicators. New models added with Ultra LEDs.

- New models with ultra bright LEDs added to single-screen models.
- Previous models not changed.
   Line up of models in seven colors (the previous red, orange, green, and white models, and the new yellow, blue, and pure white models).





Refer to Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions in the A3P datasheet.

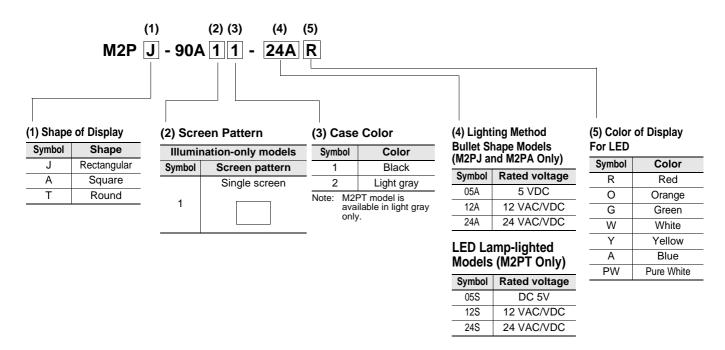
## **List of Models**

Model	Appearance
M2PJ (Rectangular)	6.7 52 max.
M2PA (Square)	6.7 52 max.
M2PT (Round)	6.4 52 max.

## **Model Number Structure**

**Model Number Legend** ..... The model numbers used to order sets of Units are illustrated below. One set comprises the Display, Lamp, and Socket.

For information on combinations, refer to Ordering Information on page 3.



Color of	Symbol	R	Y	G	W	0	Α	PW
screen	Color	Red	Yellow	Green	White	Orange	Blue	Pure White
Color of pla	ate	Red	Yellow	Green	White	Orange	Blue	White
LED		Red	Pure White	Green	Amber	Orange	Blue	Pure White

## **Ordering Information**

**Ordering as a Set** ...... The model numbers used to order sets of Units are given in the following tables. One set comprises the Display, Lamp, and Socket.

#### M2PJ (Rectangular) Single-screen Models





Single screen

(1)

Lighting method	Case color	Black	Light gray
	5 VDC	M2PJ-90A11-05A(1)	M2PJ-90A12-05A(1)
Bullet Shape LEDs R, O, G, W, Y, A or PW	12 VAC/DC	M2PJ-90A11-12A(1)	M2PJ-90A12-12A(1)
	24 VAC/DC	M2PJ-90A11-24A(1)	M2PJ-90A12-24A(1)

Note: Enter the desired color symbol for the Pushbutton in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

Example: Red M2PJ-90A11-24A R

## M2PA (Square) Single-screen Models





Single screer



Case color Lighting method		Black	Light gray	
Dullet Obassa LEDa	5 VDC	M2PA-90A11-05A(1)	M2PA-90A12-05A(1)	
Bullet Shape LEDs R, O, G, W, Y, A or PW	12 VAC/DC	M2PA-90A11-12A(1)	M2PA-90A12-12A(1)	
	24 VAC/DC	M2PA-90A11-24A(1)	M2PA-90A12-24A(1)	

Note: Enter the desired color symbol for the Pushbutton in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

Example: Red M2PA-90A11-24AR

#### M2PT (Round) Single-screen Models





Single screen



Case color Lighting method		Light gray	Lamp holder color symbol	
	5 VDC	M2PT-90A12-05S(1)		
LED lamp	12 VAC/DC	M2PT-90A12-12S(1)	R, O, G, W, Y, A, or PW	
	24 VAC/DC	M2PT-90A12-24S(1)		

Note: Enter the desired color symbol for the Pushbutton in (1). (R) = Red, (O) = Orange, (G) = Green, (W) = White, (Y) = Yellow, (A) = Blue, (PW) = Pure White.

Example: Red M2PT-90A12-24SR

## **Accessories, Parts, and Tools**

The accessories, parts, and tools are the same as those for the A3P Lighted Pushbutton Switches. Refer to the A3P datasheet.

## **Specifications**

# LED and Incandescent Lamp Ratings and Characteristics

Ratings and characteristics are the same as those for the A3P Lighted Pushbutton Switches. Refer to the A3P datasheet.

## **Approved Standard Ratings**

UL (File No. E41515), CSA (File No. LR45258)

LED: 24 VDC max.

Incandescent lamp: 28 VAC/VDC,1.2 W max.

Note: Certification has been obtained for the Indicator.

For detailed information on individual products that have received

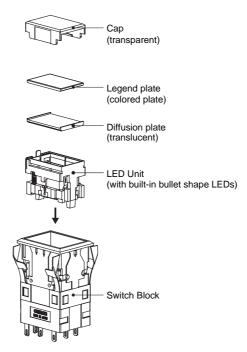
certification, consult your supplier.

## **Nomenclature**

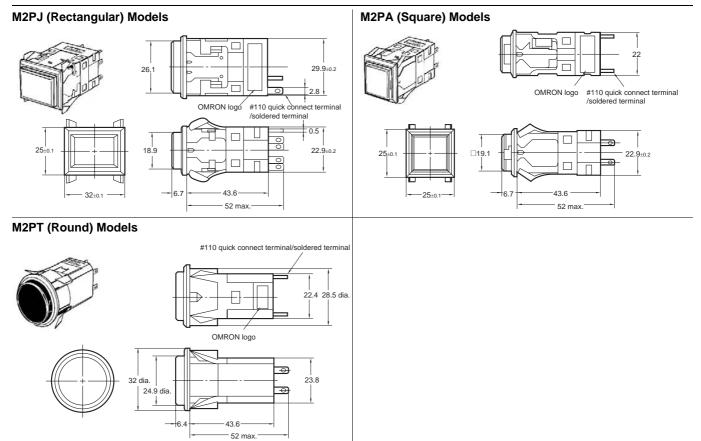
## **Model Structure**

Lighting method	Bullet Shape (LED is	LED lamp-lighted models (LED is not built-in.)	
Models	M2PJ	M2PA	M2PT
Screen pattern	Single screen	Single screen	Single screen

Example: M2PJ with Bullet Shape LED Lighting



Dimensions (Unit: mm)



Note: Use a panel thickness of 0.5 mm for tab terminals #110 and solder terminals.

## **Terminal Connections**

## **Bullet Shape LED Models**

Model	Screen pattern	5 VDC		12 VDC		24 VDC	
M2PJ	Single screen	Bottom view  L4-1 <sub>12</sub> L1-1  L3-1 LG+	Top view  Lighting block	Bottom view  L4-12- L1-1 L3-1-C+  Terminal	Top view  Lighting block	Bottom view  L4- L1- L1- L3- L0- Terminal	Top view  Lighting block
M2PA	Single screen	Bottom view  LC+ L1- L2- L2-	Top view  Lighting block	arrangement	Bottom view  LC+ L1- L2- Terminal arrangement	arrangement  Top view  Lighting block	Lighting block

## **LED Lamp-lighted Models**

Model Type	Round M2	PT models
Indicator	Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-Lu-L	Lighting block
	arrangement	

Dimensions (Unit: mm)

## **Panel Cutout**

#### M2PJ (Rectangular) Models

Classification		Mounting d	esign	Panel cutout	Remarks
	Individual mounting (Horizontal)	25±0.1		30.5±0.3 23.5±0.3	
Flange	Multiple mounting (Horizontal)	25±0.1 1 2 n		32n-1.5±0.3 23.5±0.3	Panel cutout spacing between rows of Units:
mount models	Individual mounting (Vertical)	32±0.1	Mount to long mounting plate (A3PJ-3002) before use.	23.5±0.3 30.5±0.3	6 min. +
	Multiple mounting (Vertical)	32±0.1 1 2 n	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3	
	Individual mounting (Horizontal)	27		36.4±0.3 23.5±0.3	For barrier mount models, refer to Accesso-
Barrier mount models	Multiple mounting (Horizontal)	27 1 2 33n+6±1	n	32.9n+3.5±0.3 23.5±0.3	ries in the A3P datasheet. Panel cutout spacing between rows of Units: Dotted line indicates the position of each mounting barrier.
	Individual mounting (Vertical)	32:0.1	Mount to long mounting plate (A3PJ-3002) before use.	29.4±0.3 30.5±0.3	1.3 — — — 6 min. 6 min.
	Multiple mounting (Vertical)	34 1 2 n	Mount to long mounting plate (A3PJ-3002) before use.	30.5±0.3 30.5±0.3	

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.

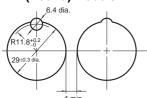
#### M2PA (Square) Models

Class	sification	Mounting design	Panel cutout	Remarks
Flange mount	Individual mounting	25±0.1	23.5±0,3	Panel cutout spacing between rows of Units:
mount models	Multiple mounting	25±0.1 1 2 n	23.5±0,3 25n-2.5±0.3	6 min.
Barrier	Individual mounting	27	23.5±0,3 27.8±0.3	Panel cutout spacing between rows of Units: Dotted line indicates the position of each mounting barrier.
mount models	Multiple mounting	27 1 2 n	23.5±0,3	1.3 — 6 min. 6 min.

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.

#### M2PT (Round) Models



Note: 1. Recommended panel thickness: 1 to 5 mm

2. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating

## **Safety Precautions**

Refer to Safety Precautions for all Pushbutton Switches/Indicators for common precautions. Read the Safety Precautions in the A3P datasheet.

## **Safety Precautions**

### Refer to Safety Precautions for all Pushbutton Switches/Indicators.

## 

Do not apply a voltage higher than the maximum rated operating voltage between the lamp terminals, as there is a risk that the incandescent lamp or LED will be damaged, and the Pushbutton will be ejected.



When replacing the incandescent lamp, first turn OFF the power supply, and then wait 10 minutes before performing replacement, as the lamp is still hot immediately after the power is turned OFF, so there is a risk of burns.



#### **Precautions for Correct Use**

- Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance. Electric shock or fire may occur.
- After wiring the Switch, make sure that there is a suitable isolation distance.

#### Wiring

Solder quickly and correctly at 350°C max and for 3 s or less.
 Wait for one minute after soldering before exerting any external force on the solder.

#### **Operating Environment**

 Do not use in locations that are subject to dust, oil, or metal filings as these may penetrate the interior of the Switch and cause malfunction.

#### LED (for VDC)

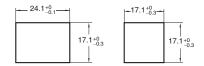
- Check the terminal polarity when wiring.
- The rated voltage is shown on the plate on the back of the lighting unit, so be sure to use within the voltage shown.
- An LED current-limiting resistor is built in, so there is no need to mount an external resistor.

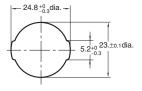
#### Incandescent Lamp

 Apply 80% of the rated voltage (operating voltage) to the incandescent lamp to improve life expectancy and incandescence.

## Character Plate (Character Film)

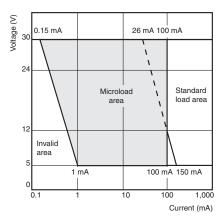
• If preparing the character plate separately, use a heat-resistant film with a thickness of 0.1 to 0.3 mm.





#### **Using Microloads**

• Using a standard load switch when a microload circuit is opened or closed may cause contact failure on the contacts. Use the switch within the operating range. (Refer to the diagram below.) Even when using microload models within the operating range shown below, if inrush current occurs when the contact is opened or closed, it may cause the contact surface to become rough, and so decrease life expectancy. Therefore, insert a contact protection circuit where necessary. The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% ( $\lambda$  60) (conforming to JIS C5003). The equation,  $\lambda$  60 = 0.5 x 10<sup>-6</sup>/time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



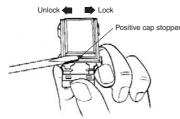
#### **Others**

 If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

#### Assembly/Disassembly

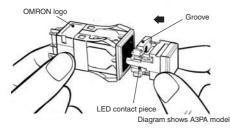
### A3PJ/M2PJ (Rectangular Models), A3PA/M2PA (Square Models)

Locking/Unlocking Positive Cap Lock Mechanism



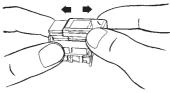
#### **Mounting Pushbutton**

- Be sure to mount the Pushbutton with the correct orientation. Align the groove on the Pushbutton, the projections in the Switch, and the LED contact piece before pushing the Pushbutton into the Switch.
- When dismounting the Pushbutton, use the Extractor (A3PJ-5080) for easy dismounting.



#### Removing/Mounting Cap

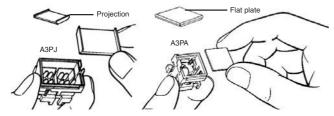
Insert the A3PA from the open side into the theft-prevention stopper.



## **Mounting Colored Plate**

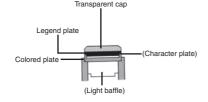
Place the colored plate on the plunger case with the dull side of the colored plate facing downward.

With A3PJ split-screen models, be sure that the projections on the upper surface of the colored plate face outward. For the A3PA, make sure that the flat plate is facing upwards.



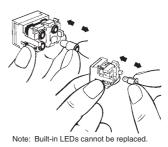
# Mounting Character Plate (Character Frame) and Legend Plate

Mount the legend plate for the A3PJ under the layered surfaces and mount the cap, as shown below.



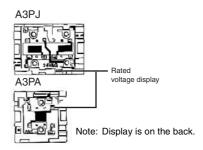
#### Mounting and Replacing LED and Incandescent Lamps

If using an A3PA (square) model with one incandescent lamp, insert the lamp in the center hole.



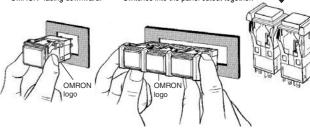
#### LED Rated Voltage Display (LED Models Only)

The LED rated voltage is shown between the built-in resistors on the back of the lighting unit. Use within a range of  $\pm$  5%.



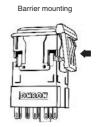
## **Mounting Switch onto Panel**

 Individual Mounting and Barrier Mounting When mounting the Switch, push it into the panel cutout from the front of the mounting panel by holding it with the logo mark "OMRON" facing downward. Multiple Barrier Mounting (A3PJ)
When mounting a number of Switches in
line on the panel, link the Switches with
spacing barriers in between, attach
mounting barriers at both sides of this block 
of Switches and, pushing in on the
mounting barriers at the side, insert the
Switches into the panel cutout together.



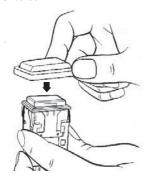
#### **Mounting Barriers**

Mount each part by pushing it in the direction of the arrow shown in the corresponding illustration below.



#### **Mounting Seal Cover**

After mounting the seal cover onto the flange of the Switch, push the Switch into the panel cutout.

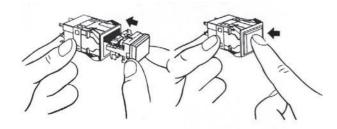


#### Inscribing the Legend Plate

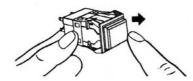
- Inscribe the legend plate to a depth of 0.5 mm max.
- The legend plate is made from polycarbonate resin. To coat the legend plate, use an alcohol-based coating such as melamine, phthalic acid, or acrylic.

#### **Maintenance Lock**

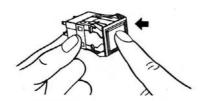
 First, when you insert the transparent lens while pressing the center, the maintenance lock mechanism will be activated, and the Switch will not operate. Lamp replacement and other maintenance can be performed without turning OFF the power supply to devices and equipment. Use an insertion force of 4 kg.



2. Next, when you remove your finger from the Switch, the lock will be released.



3. The Switch will start to operate when the lighting unit is pressed the second time.



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- and (ii) Buyer has no past due amounts.

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  (ii) Use in consumer products or any use in significant quantities.

  (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject and industrial consumers and consumers are consumers and status of the consumers and consumers.
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  - NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

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