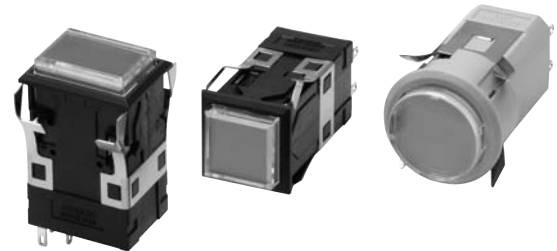



Indicator (Square) Ultra Bright LED Type M2P

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

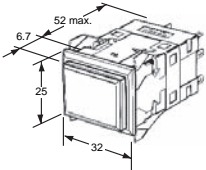
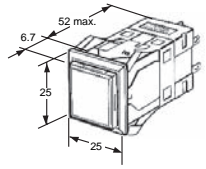
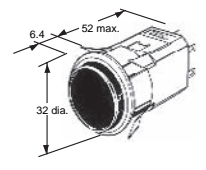
- New models with ultra bright LEDs added to single-screen models.
 - Previous models not changed.
- Line up of models in seven colors (the previous red, orange, green, and white models, and the new yellow, blue, and pure white models).



NEW

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

List of Models

Model	Appearance
M2PJ (Rectangular)	
M2PA (Square)	
M2PT (Round)	

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.


(1) (2) (3) (4) (5)

M2P J - 90A 1 1 - 24A R

(1) Shape of Display

Symbol	Shape
J	Rectangular
A	Square
T	Round

(2) Screen Pattern

Illumination-only models	
Symbol	Screen pattern
1	Single screen 

(3) Case Color

Symbol	Color
1	Black
2	Light gray

Note: M2PT model is available in light gray only.

(4) Lighting Method
Bullet Shape Models (M2PJ and M2PA Only)

Symbol	Rated voltage
05A	5 VDC
12A	12 VAC/VDC
24A	24 VAC/VDC

LED Lamp-lighted Models (M2PT Only)

Symbol	Rated voltage
05S	DC 5V
12S	12 VAC/VDC
24S	24 VAC/VDC

(5) Color of Display For LED

Symbol	Color
R	Red
O	Orange
G	Green
W	White
Y	Yellow
A	Blue
PW	Pure White

Color of screen	Symbol	R	Y	G	W	O	A	PW
	Color	Red	Yellow	Green	White	Orange	Blue	Pure White
Color of plate		Red	Yellow	Green	White	Orange	Blue	White
LED		Red	Pure White	Green	Amber	Orange	Blue	Pure White

2

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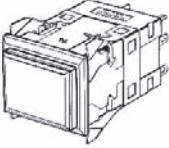
Ordering Information

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

Rectangular

(Single Screen)



Single screen

(1)

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

M2PA (Square) Single-screen Models

Square

(Single Screen)



Single screen

(1)

Case color		Black	Light gray
Lighting method			
Bullet Shape LEDs R, O, G, W, Y, A or PW	5 VDC	M2PA-90A11-05A(1)	M2PA-90A12-05A(1)
	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

Round

(Single Screen)



Single screen

(1)

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

M2P

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)

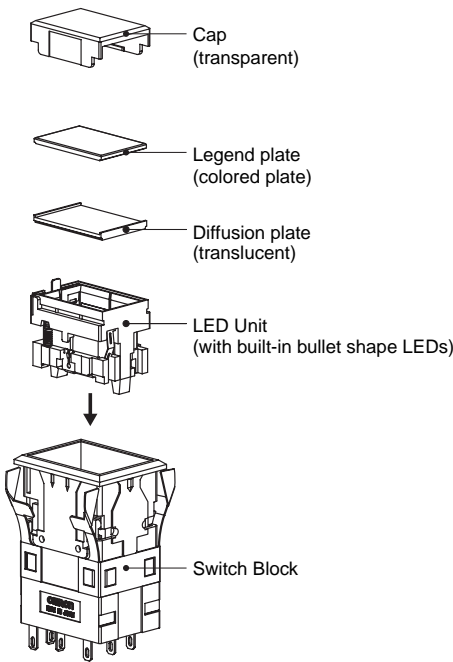
LED: 24 VDC max.
Incandescent lamp: 28 VAC/VDC, 1.2 W max.
Note: Certification has been obtained for the Indicator.
For detailed information on individual products that have received certification, consult your supplier.

Nomenclature

Model Structure

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

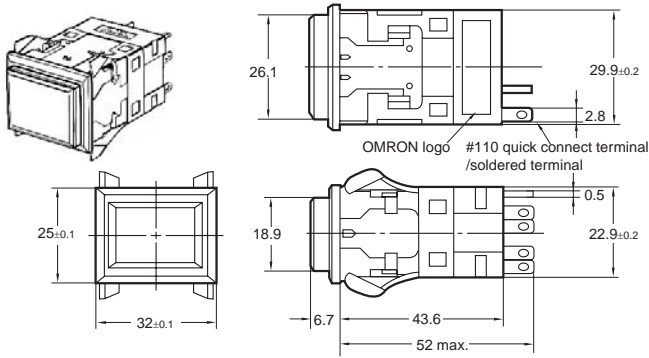
Example: M2PJ with Bullet Shape LED Lighting



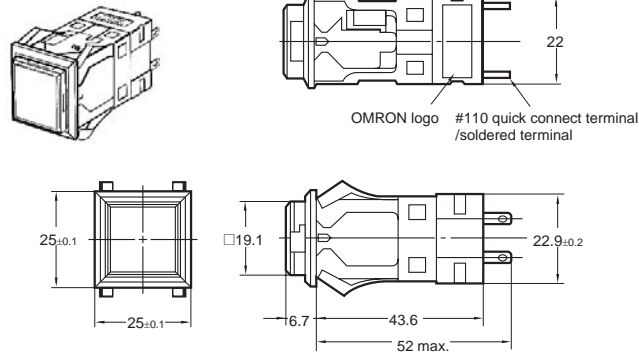
Dimensions

(Unit: mm)

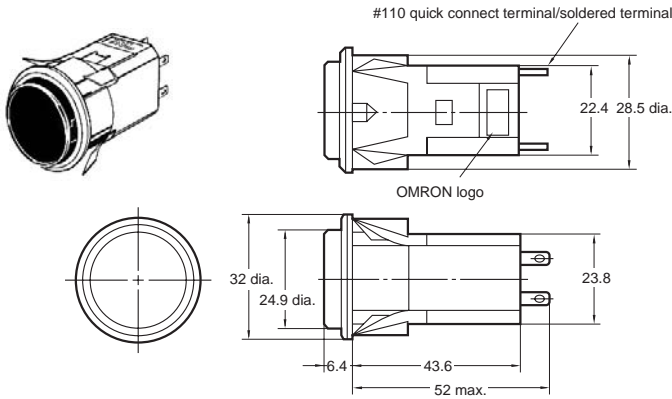
M2PJ (Rectangular) Models



M2PA (Square) Models



M2PT (Round) Models



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

Terminal Connections

Bullet Shape LED Models

Model	Rated voltage Screen pattern	5 VDC	12 VDC	24 VDC
M2PJ	Single screen	<p>Bottom view</p> <p>Terminal arrangement</p> <p>Top view</p> <p>Lighting block</p>	<p>Bottom view</p> <p>Terminal arrangement</p> <p>Top view</p> <p>Lighting block</p>	<p>Bottom view</p> <p>Terminal arrangement</p> <p>Top view</p> <p>Lighting block</p>
M2PA	Single screen	<p>Bottom view</p> <p>Terminal arrangement</p> <p>Top view</p> <p>Lighting block</p>	<p>Bottom view</p> <p>Terminal arrangement</p> <p>Top view</p> <p>Lighting block</p>	

LED Lamp-lighted Models

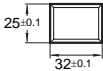
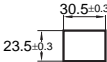
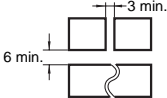
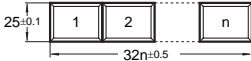
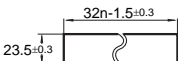
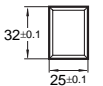

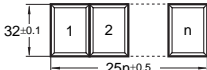
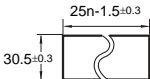

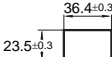
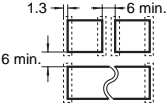
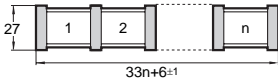
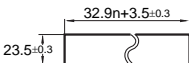


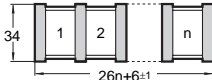
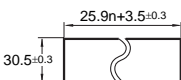
Type	Model	Round M2PT models
Indicator		<p>Terminal arrangement</p> <p>Lighting block</p>

Dimensions

(Unit: mm)



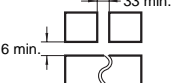
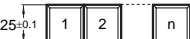



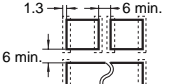
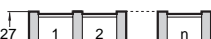

Panel Cutout

M2PJ (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 (A3PJ-3002) before use.		
	Multiple mounting (Vertical)		Mount to long mounting plate (A3PJ-3002) before use.		
Barrier mount models	Individual mounting (Horizontal)				For barrier mount models, refer to Accessories in the A3P datasheet. 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 (A3PJ-3002) before use.		
	Multiple mounting (Vertical)		Mount to long mounting plate (A3PJ-3002) before use.		

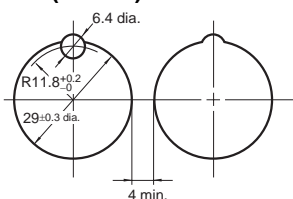
Note: 1. n: Number of Units
 2. Recommended panel thickness: 1 to 5 mm
 3. Mount the panel before mounting the Switch Guard.
 4. If the panel is to be finished (e.g., coated), make sure that the panel meets the specified dimensions after the coating.

M2PA (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.

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.

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