

Indicator with Cylindrical 20-mm × 12-dia. Body

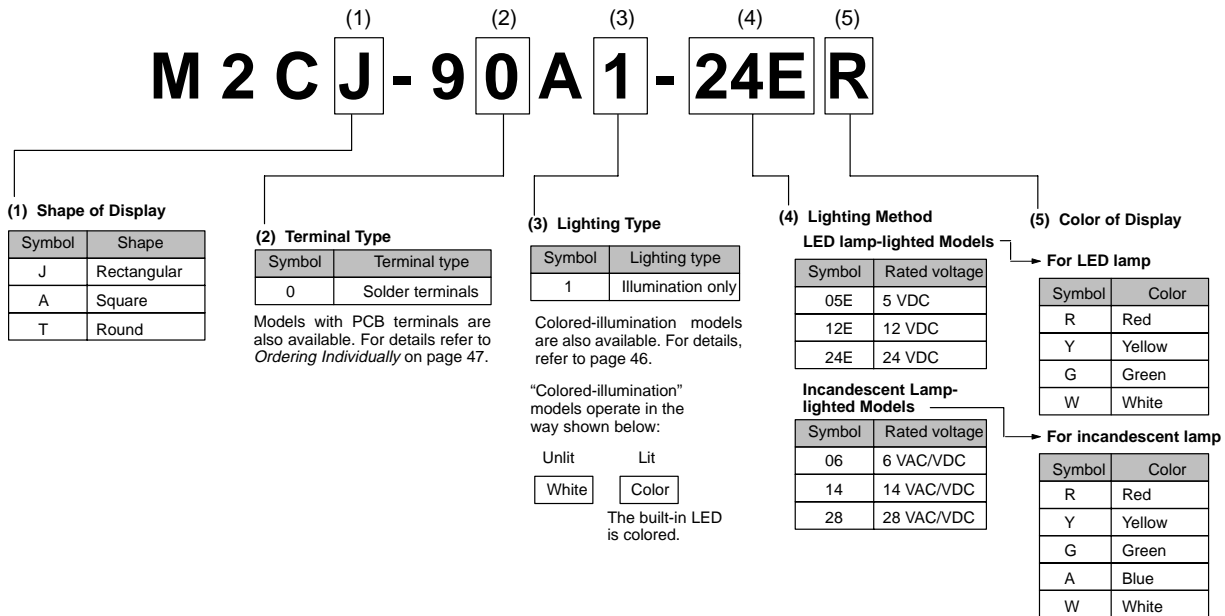
- Same basic design as the A3C Pushbutton Switch.
- Good illumination with even surface brightness.
- Cylindrical body means panel cutouts can be made easily.
- UL (E41515) and CSA (LR45258) approved.



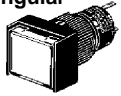
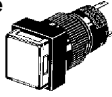

Ordering Information

■ Model Number Legend:

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



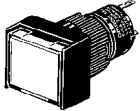
■ List of Models

Appearance	Model
Rectangular 	M2CJ
Square 	M2CA
Round 	M2CT

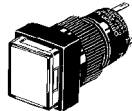
■ Ordering as a Set

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

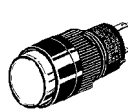
Rectangular Models



Square Models



Round Models



Indicators (SPST-NO+SPST-NC Solder Terminals)

Appearance	Lighting	Model number (for set)	Display color symbol
Rectangular (M2CJ)	LED lamp	M2CJ-90A-05E□	R: red Y: yellow G: green W: white
		M2CJ-90A-12E□	
		M2CJ-90A-24E□	
	Incandescent lamp	M2CJ-90A1-06□	R: red Y: yellow G: green W: white A: blue
		M2CJ-90A1-14□	
		M2CJ-90A1-28□	
Square (M2CA)	LED lamp	M2CA-90A1-05E□	R: red Y: yellow G: green W: white
		M2CA-90A1-12E□	
		M2CA-90A1-24E□	
	Incandescent lamp	M2CA-90A1-06□	R: red Y: yellow G: green W: white A: blue
		M2CA-90A1-14□	
		M2CA-90A1-28□	
Round (M2CT)	LED lamp	M2CT-90A1-05E□	R: red Y: yellow G: green W: white
		M2CT-90A1-12E□	
		M2CT-90A1-24E□	
	Incandescent lamp	M2CT-90A1-06□	R: red Y: yellow G: green W: white A: blue
		M2CT-90A1-14□	
		M2CT-90A1-28□	

Note: Enter the desired color symbol for the Display in the □ at the end of the model number.

■ Illumination-only and Colored-illumination LED Models

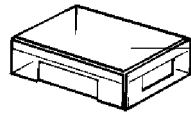
“Illumination only” describes LED models for which the screen color is the same whether the LED is lit or not. The screen simply becomes brighter when the LED lights.

Example: Red LED

Not lit



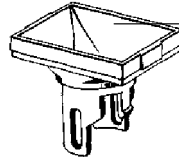
Lit



Cap (red)



Legend plate (milky white)



Reflective plunger



LED lamp (red) - - - Lamp

Display

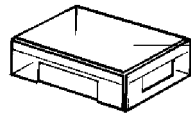
“Colored illumination” describes LED models for which the screen color is white when the LED is not lit and changes to the color of the LED lamp when the LED is lit.

Example: Red LED

Not lit



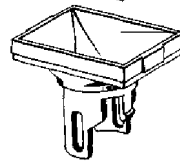
Lit



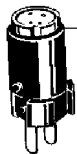
White cap (semi-transparent)



Diffusion sheet (transparent)



Reflective plunger



LED lamp (red) - - - Lamp

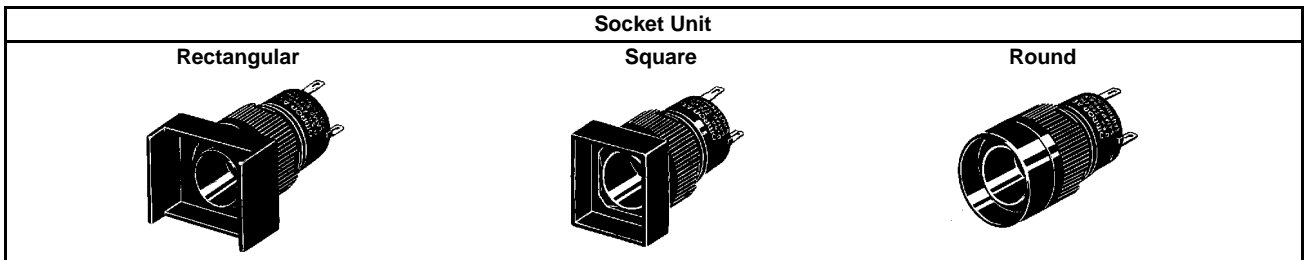
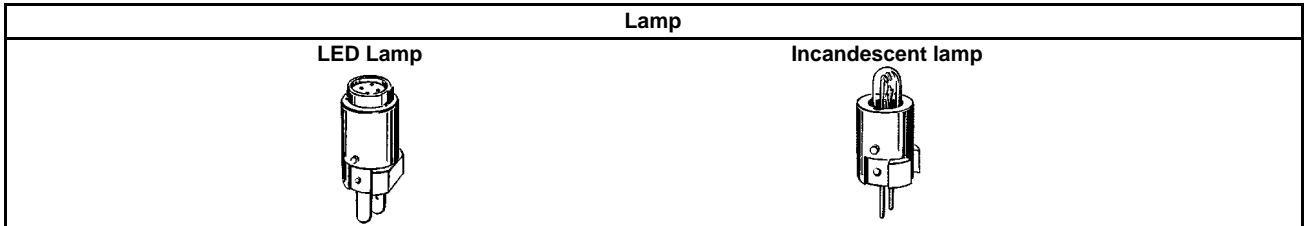
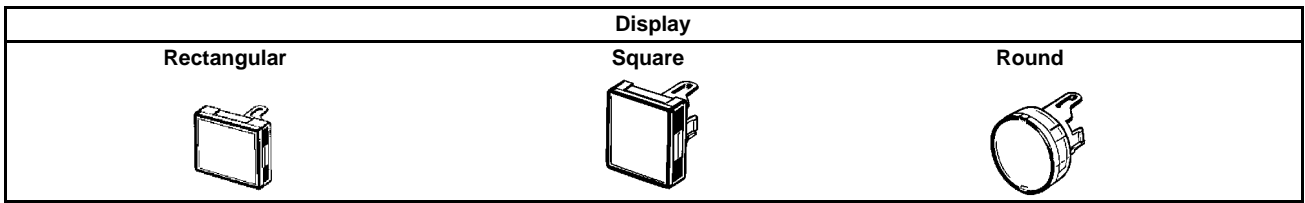
Display

Ordering: With colored-illumination models, order the Display, Lamp, and Socket Unit as shown in the following table.

Illuminated color	Display	Lamp (LED)	Socket Unit
Red	IP40 A3C□-500W	A16-□DR	Refer to the following information. Order the Socket Unit that is appropriate for the Display.
Yellow	Enter one of the following symbols in □. J: Rectangular A: Square T: Round	A16-□DY	
Green		A16-□DG	
			Enter one of the following symbols in □. 5: 5 VDC 12: 12 VDC 24: 24 VDC

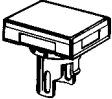


■ Ordering Individually

Displays, Lamps, and Socket Units can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.



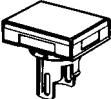


Display (Lighted Models)

LED Lamp

Button color	Rectangular	Square	Round
			
Red	A3CJ-500R	A3CA-500R	A3CT-500R
Yellow	A3CJ-500Y	A3CA-500Y	A3CT-500Y
Green	A3CJ-500GY	A3CA-500GY	A3CT-500GY
White	A3CJ-500W	A3CA-500W	A3CT-500W

Note: The red, yellow, and white Displays listed above can be used with either LED lamp-lighted models or incandescent lamp-lighted models.

Incandescent Lamp

Button color	Rectangular	Square	Round
			
Red	A3CJ-500R	A3CA-500R	A3CT-500R
Yellow	A3CJ-500Y	A3CA-500Y	A3CT-500Y
Green	A3CJ-500G	A3CA-500G	A3CT-500G
White	A3CJ-500W	A3CA-500W	A3CT-500W
Blue	A3CJ-500A	A3CA-500A	A3CT-500A

Lamp

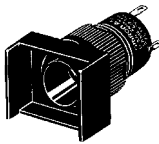
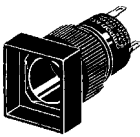
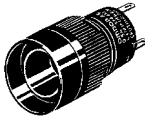
LED Lamp

Color	Rated voltage		
	5 VDC	12 VDC	24 VDC
Red	A16-5DR	A16-12DR	A16-24DR
Yellow	A16-5DY	A16-12DY	A16-24DY
Green	A16-5DG	A16-12DG	A16-24DG
White	A16-5DW	A16-12DW	A16-24DW

Incandescent Lamp

Rated voltage	Model
6 VAC/VDC	A16-5
14 VAC/VDC	A16-12
28 VAC/VDC	A16-24

Socket Unit

Terminal	Sealing Appearance	IP40		
				
Solder terminals	M2CJ-7001	M2CA-7001	M2CT-7001	
PCB terminals	M2CJ-7002	M2CA-7002	M2CT-7002	

■ Accessories

The accessories for the A3C Lighted Pushbutton Switch can also be used with the M2C. Refer to page 35.

Specifications

■ Ratings

LED Lamp

Rated voltage	Rated current	Operating voltage	Internal limiting resistance
5 VDC	30 mA	5 VDC \pm 5%	33 Ω
12 VDC	15 mA	12 VDC \pm 5%	270 Ω
24 VDC	10 mA	24 VDC \pm 5%	1,600 Ω

Incandescent Lamp

Rated voltage	Rated current	Operating voltage
6 VAC/VDC	60 mA	5 VAC/VDC
14 VAC/VDC	40 mA	12 VAC/VDC
28 VAC/VDC	24 mA	24 VAC/VDC

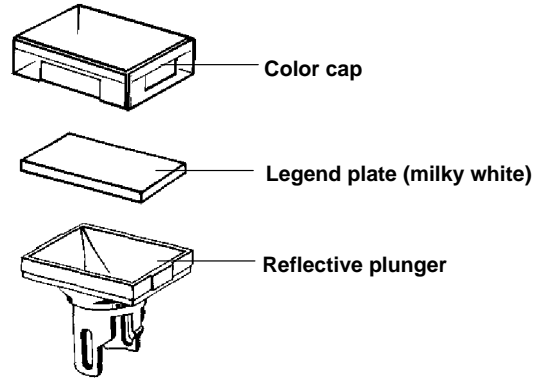
■ Characteristics

Ambient operating temperature	-10°C to 55°C (with no icing or condensation)
Ambient operating humidity	35% to 85%
Ambient storage temperature	-25°C to 65°C

■ Approved Standards

UL, CSA

Nomenclature



Display

Shape of Display

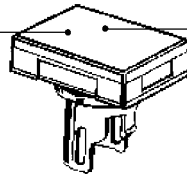
Rectangular
(M2CJ)



Square
(M2CA)



Round
(M2CT)

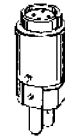


Color of Display

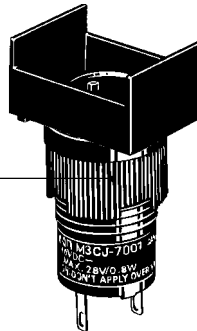
- LED Lamp-lighted Models:
Red, yellow, green, white
- Incandescent Lamp-lighted Models:
Red, yellow, green, white, blue



Lamp
LED Lamp



Incandescent Lamp

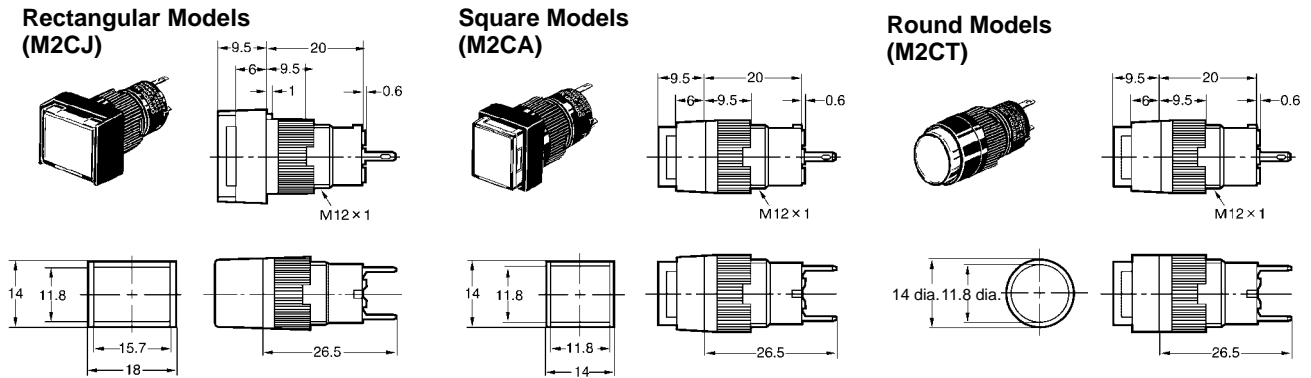


Socket Unit

Note: The M2CJ model is shown here as a representative example.

Dimensions

Note: All units are in millimeters unless otherwise indicated.



Note: Unless specified, there is a tolerance of ± 0.4 mm for dimensions.

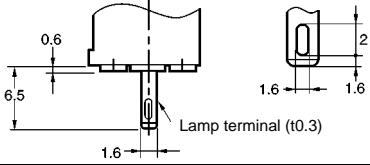
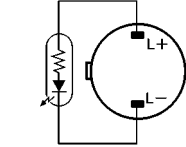
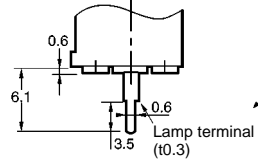
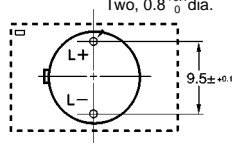
Operation

■ Panel Cutout (Top View)

Accessories used	Rectangular/M2CJ	Square/M2CA, Round/M2CT
Indicator Unit only	<p>Note: Recommended panel thickness: 1.0 to 3.2 mm.</p>	<p>Note: Recommended panel thickness: 1.0 to 3.2 mm.</p>
With Dust Cover		---

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

■ Terminal Connections

Terminal	Type
Solder terminal	<p style="text-align: center;">SPST-NO+SPST-NC</p> <p>Lighted and non-lighted models</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Terminal Hole Dimensions</p>  </div> <div style="text-align: center;"> <p>Terminal Arrangement (bottom view)</p>  </div> </div>
PCB terminal	<p>Lighted and non-lighted models</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Terminal Arrangement (bottom view)</p>  </div> <div style="text-align: center;"> <p>PCB Cutout (bottom view)</p>  </div> </div>

Precautions

■ Correct Use

Refer to the *Common Precautions* for Pushbutton Switches on page 11.

Refer to *Correct Use* for A3C on page 43.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

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