

Ratings and Specifications

Certified Standard Ratings

UL508 (File No.E76675), CSA C22.2 No.14

12 mA 6 VAC/DC
 12 mA 12 VAC/DC
 12 mA 24 VAC/DC
 12 mA 100-120 VAC
 12 mA 200-240 VAC

TÜV (EN60947-5-1)

80 mA 6 VAC/DC
 40 mA 12 VAC/DC
 20 mA 24 VAC/DC
 10 mA 100-120 VAC
 5 mA 200-240 VAC

CCC (GB/T14048.5)

6, 12, 24 VAC/DC
 100-120, 200-240 VAC

Application Standards

UL1059 and UL486E (Push-In Plus terminal block type)

Ratings

LED Lamps

Rated voltage	Applied voltage	Current
6 VAC/DC	6 VAC/DC $\pm 10\%$	Approx. 11 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
12 VAC/DC	12 VAC/DC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
24 VAC/DC	24 VAC/DC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
100 VAC	100 VAC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
110 VAC	110 VAC $\pm 10\%$	
120 VAC	100-130 VAC	
200 VAC	200 VAC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
220 VAC	220 VAC $\pm 10\%$	
230 VAC	230 VAC $\pm 10\%$	
240 VAC	220-250 VAC	

Characteristics

Item	Type	Indicator
Allowable operating frequency	Mechanical	---
	Electrical	---
Insulation resistance		---
Contact resistance		---
Dielectric strength	Between terminals of same polarity	---
	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min. (initial value)
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction	1,000 m/s ² max.
Durability	Mechanical	---
	Electrical	---
Ambient operating temperature ^{*1}		-25 to 55°C
Ambient operating humidity		35% to 85% RH
Ambient storage temperature ^{*1}		-40 to 80°C
Degree of protection ^{*2}		Conforming to IP66, NEMA 4X, NEMA13
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (EN 60947-5-1)
Weight		Approx. 30 g

*1. With no icing or condensation.

*2. Degree of protection from the front of the panel.

M22N

Dimensions

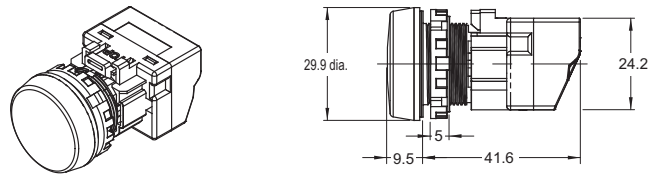
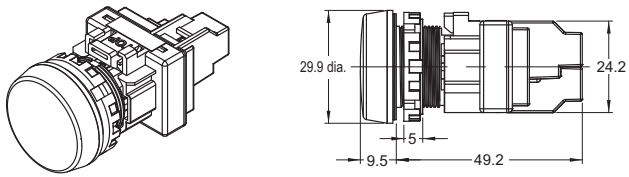
(Unit: mm)

Indicators

Plastic Flat Indicators

M22N-BN-□□A-□□

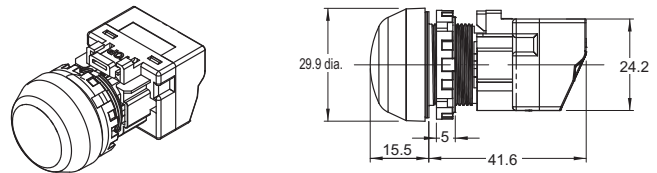
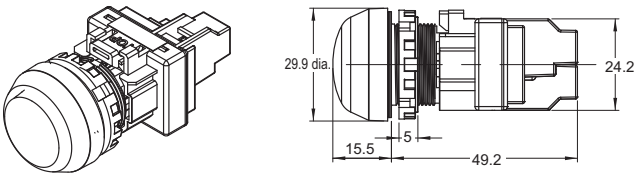
M22N-BN-□□A-□□-P



Plastic Semi-spherical Indicators

M22N-BG-□□A-□□

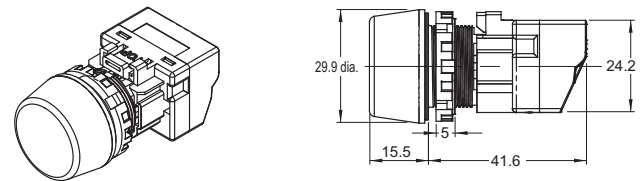
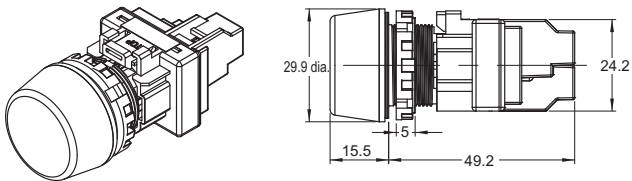
M22N-BG-□□A-□□-P



Plastic Projected Indicators

M22N-BP-□□A-□□

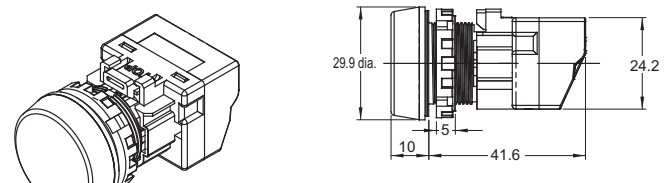
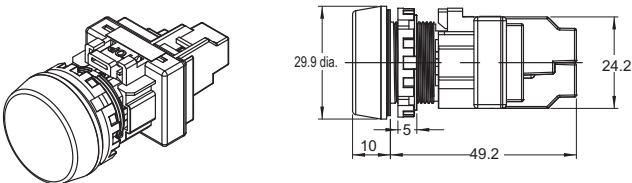
M22N-BP-□□A-□□-P



Plastic Flat Etched Indicators

M22N-BC-□□A-□□

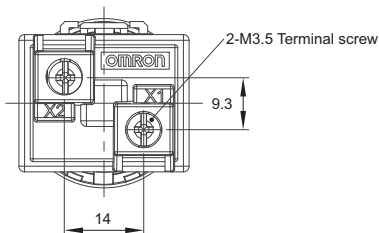
M22N-BC-□□A-□□-P



Terminal Arrangement

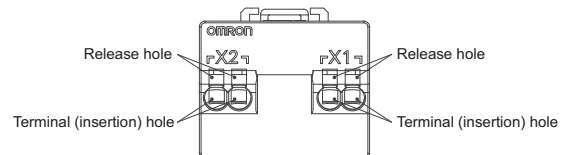
BOTTOM VIEW

Screw terminal block type



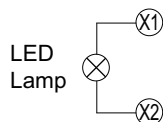
BOTTOM VIEW

Push-in Plus terminal block type



Terminal Connection Diagrams

Screw terminal block type Push-in Plus terminal block type



Pushbutton Switches A30NN/A30NL

30-mm dia. Pushbutton Switches
Control panel miniaturization through a more compact design and modified wiring direction.
Addition of Push-In Plus terminal blocks for easy wiring.
Workability and safety improvements.



Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion. (Screw terminal block type)
- Screw terminal structure is compatible with round crimp terminals. (Screw terminal block type)
- The terminals can be secured even when a contact block is mounted. (Screw terminal block type)
- Contact Blocks can be attached in any direction for easy assembly.

Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- No loose connections of wiring means maintenance-free use. (Push-In Plus terminal block type)

Product Lineup

- The buttons and bezels come in a wide variety of colors and shapes.

Refer to *Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions* on page 85.

Button Colors

Non-lighted Switches	A30NN-□□□-N□ Opaque		Red	Green	Yellow	White	Blue	Black	
Lighted Switches	A30NL-□□□-T□ Transparent	When not lit	Red	Green	Yellow	White	Blue	Orange	White
		When lit	Red	Green	Yellow	White	Blue	Orange	Opaque white*

* The colors when the Switches are lit are for transparent white buttons (code: TW) and yellow LED Lamps (code: Y).