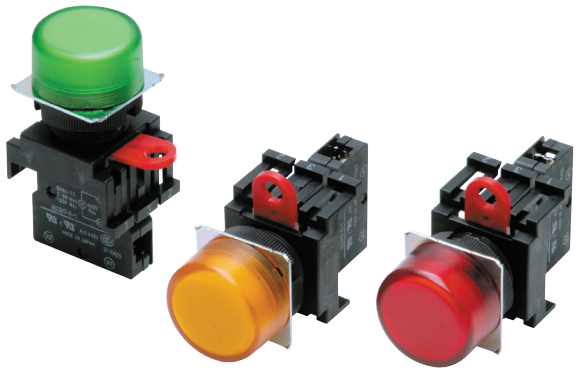
M22

CSM_M22_DS_E_3_1

Round Indicator Series with 22 dia. and 25 dia. (when using a ring)

- Same type as the A22-series Pushbutton Switches.
- Use 25-dia. ring to install in 25-dia. panel cutouts.
- IP65



⚠ Refer to *Safety Precautions for All Pushbutton Switches* and *Safety Precautions* for the A22.

List of Models

Appearance		Model
Round	Flat 	M22-F
Square	Projection 	M22-C

Model Number Structure

Model Number Legend.....Shipped as a set which includes the Display, Lamp, and Socket Unit. For information on combinations, refer to Ordering Information.

(1) (2) (3)

M22 - F G - 24A

(1) Display Shape

Code	Description
F	Round/Flat
C	Square/Projection

(2) Illumination Color

Code	Description
R	Red
G	Green
Y	Yellow
W	White
A	Blue

(3) Light Source

Without Voltage Reduction Unit

Code	Type	Operating voltage
6A	LED	6 VAC/VDC
12A		12 VAC/VDC
24A		24 VAC/VDC
5	Incan-descent lamp	5 VAC/VDC
12		12 VAC/VDC
24		24 VAC/VDC

With Voltage Reduction Unit

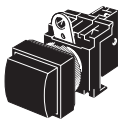
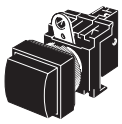
Code	Type	Operating voltage
T1	LED	100 VAC
T2		200 VAC

- LED incorporates the 24-VAC/VDC type.

Ordering Information

Completely Assembled .... Shipped as a set which includes the Display, Lamp, and Socket Unit.

Indicator

Appearance	Lighting	Operating voltage	Set	Illumination color
Round/Flat without Voltage Reduction Unit M22-F 	LED	6 VAC/VDC	**M22-F□-6A**	R (red) Y (yellow) G (green) W (white) A (blue)
		12 VAC/VDC	**M22-F□-12A**	
		24 VAC/VDC	**M22-F□-24A**	
Round/Flat with Voltage Reduction Unit M22-F 	LED	100 VAC	**M22-F□-T1**	
		200 VAC	**M22-F□-T2**	
Square/Projection without Voltage Reduction Unit M22-C 	LED	6 VAC/VDC	**M22-C□-6A**	
		12 VAC/VDC	**M22-C□-12A**	
		24 VAC/VDC	**M22-C□-24A**	
Square/Projection with Voltage Reduction Unit M22-C 	LED	100 VAC	**M22-C□-T1**	
		200 VAC	**M22-C□-T2**	

Note: Insert a symbol indicating the color of the Operation Unit in the box in the model number above.

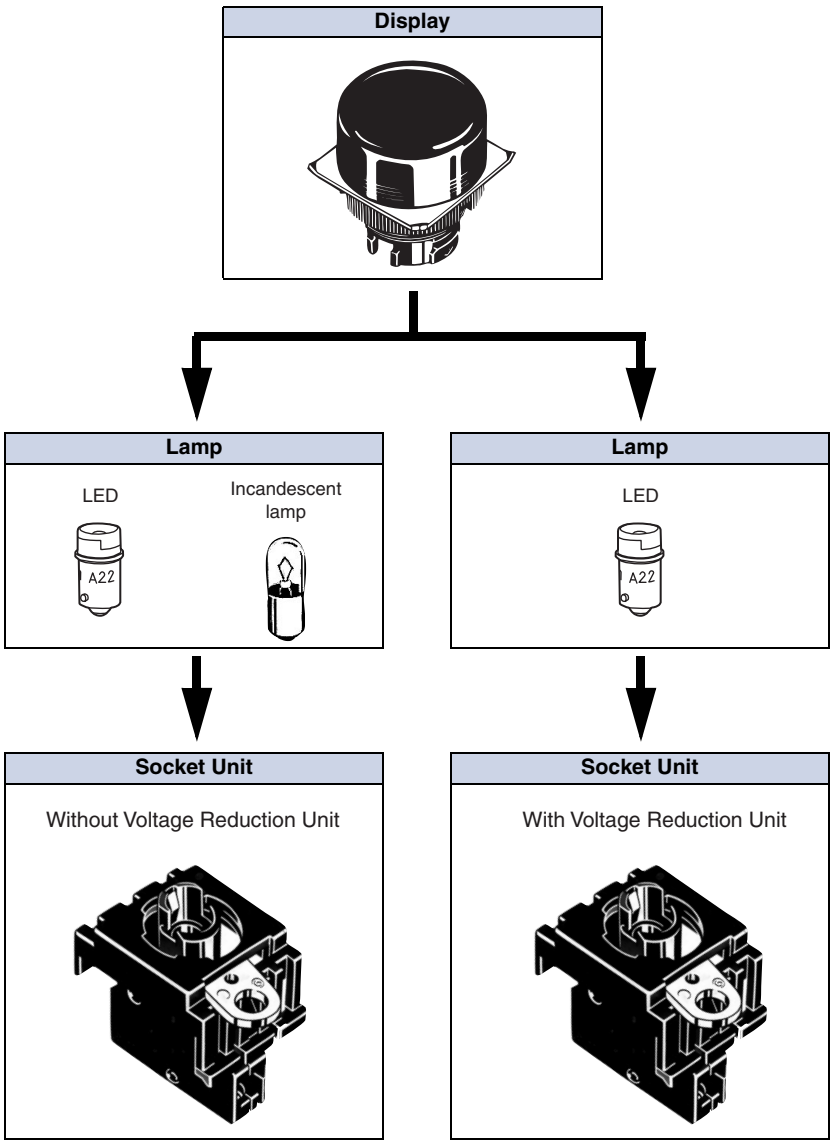
Individual models: Refer to pages 3 to 4.
(The Display, Lamp, and Socket Unit can be ordered separately.)

■ Specifications: Refer to page 5. ■ Dimensions: Refer to page 6.
■ Accessories: Refer to the A22.

Ordering Information

Subassembled ..... The Display, Lamp, or Socket Unit can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.

- Ordering: Specify models on the following page.



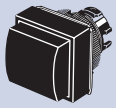
Ordering set combinations: Refer to page 2.

■ Specifications: Refer to page 5. ■ Dimensions: Refer to page 6.
■ Accessories: Refer to the A22.

Ordering Information

Subassembled..... The Display, Lamp, or Socket Unit can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.

Display

Sealing / Appearance	IP65	
	Color of Display	Model
Round (Flat) 	Red	M22-FR
	Green	M22-FG
	Yellow	M22-FY
	White	M22-FW
	Blue	M22-FA
Square (Projection) 	Red	M22-CR
	Green	M22-CG
	Yellow	M22-CY
	White	M22-CW
	Blue	M22-CA

Lamp

LED

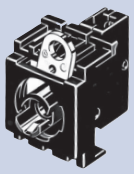
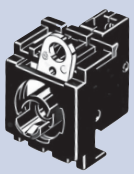
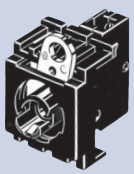
Operating voltage			6 V	12 V	24 V
Appearance	AC/DC	LED light	Model		
	AC and DC	Red	A22-6AR	—	—
		Green	A22-6AG	—	—
		Yellow *	A22-6AY	—	—
		Blue	A22-6AA	—	—
		Red	—	A22-12AR	A22-24AR
		Green	—	A22-12AG	A22-24AG
		Yellow *	—	A22-12AY	A22-24AY
		Blue	—	A22-12AA	A22-24AA

Note: For voltage-reduction lighting, use the A22-24A□. Only 24-V LED lamps can be used.
* Used when the Display color is yellow or white.

Incandescent

Appearance	Operating voltage	5 VAC/VDC	12 VAC/VDC	24 VAC/VDC
		A22-5	A22-12	A22-24

Socket Unit

Appearance / Item			
Classification	Without Voltage Reduction Unit	With Voltage Reduction Unit (110 VAC)	With Voltage Reduction Unit (220 VAC)
Model	M22-00	M22-00-T1	M22-00-T2

Note: For voltage-reduction lighting, use the A22-24A□. Only 24-V LED lamps can be used.

Accessories, Replacements, and Tools

The M22 uses the same accessories as the A22. Refer to the relevant information in the corresponding section for the A22.

Specifications

Ratings

LED Lamp

Rated voltage	Rated current	Operating voltage
6 VAC/VDC	8 mA	6 VAC/VDC ±5%
12 VAC/VDC		12 VAC/VDC ±5%
24 VAC/VDC		24 VAC/VDC ±5%

Incandescent Lamp

Rated voltage	Rated current	Operating voltage
6 VAC/VDC	200 mA	5 V
14 VAC/VDC	80 mA	12 V
28 VAC/VDC	40 mA	24 V

Voltage-reduction Lighting

Rated voltage	Rated current	Operating voltage	Applicable lamp (BA9S/Base: 13)
110 VAC	8 mA	100 VAC (95 to 115 V)	LED lamp (A22-24□)
220 VAC		200 VAC (190 to 230 V)	

Characteristics

Ambient operating temperature	–20°C to 55°C
Ambient operating humidity	35% to 85%RH
Ambient storage temperature	–40°C to 70°C
Degree of protection	IP65
Electric shock protection class	Class II
PTI (tracking characteristic)	175
Degree of contamination	3 (IEC60947-5-1)

Approved Standard Ratings

UL, cUL (File No. E41515)

Input voltage: 120 V max. 2.6 W max. (A22-TN)
110 VAC (A22-T1)
200 VAC (A22-T2)

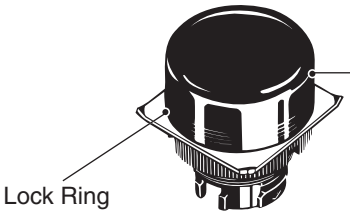
Note: Only Lamp Sockets are recognized by UL.

CCC (GB14048.5)

24 VAC/VDC max. (Without Voltage Reduction Unit)
100 VAC (With Voltage Reduction Unit: M22-□□-T1)
200 VAC (With Voltage Reduction Unit: M22-□□-T2)

Nomenclature

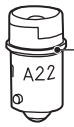
Model Structure



Lock Ring

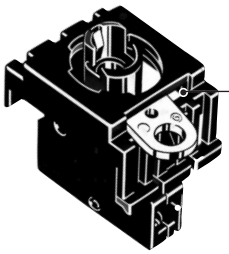
Display

Available Colors
Red, green yellow, white, blue



Lamp

Light Source
●LED lamp
●Incandescent lamp



Socket Unit

Lighting Method
●Lighted (without Voltage Reduction Unit)
●Lighted (with Voltage Reduction Unit)

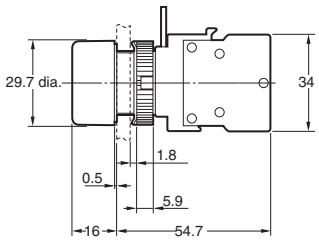
Dimensions

(Unit: mm)

Indicators

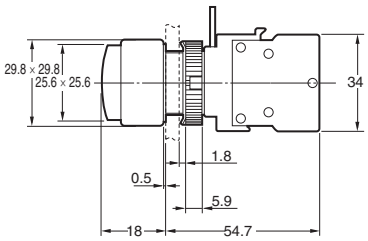
Round

M22-F



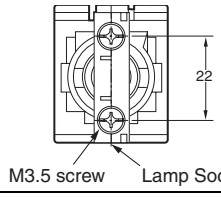
Square

M22-C



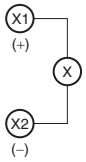
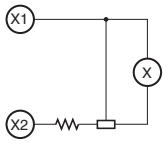
Terminal Arrangement (Bottom View)

With/Without Voltage Reduction Unit

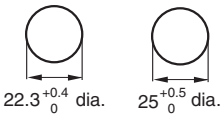


Note: The figure shows an example of the terminal arrangement when the Socket Unit is removed.

Terminal Connection

Type	Without Voltage Reduction Unit	With Voltage Reduction Unit
Terminal Connection		

Panel Cutouts



Lock Ring is provided as a standard item.

- When applying coating such as paint to the panel, the dimensions should be those after the application of coating.
- Recommended panel thickness: 1 to 5 mm.
- Use an A22Z-R25 Ring when mounting to a panel with 25-mm holes.

Accessories

Refer to the relevant information in the corresponding section for the A22.

Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches* and *Safety Precautions* for the A22.

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2008.12

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