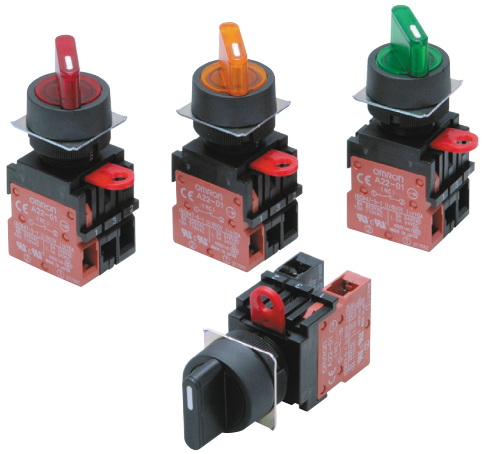
Knob-type Selector Switch (Cylindrical 22/25-dia.)

A22□

CSM_A22__DS_E_3_1

Install in 22-dia. or 25-dia. Panel Cutout

- Lever for easily mounting and removing the Switch Unit
- Increase wiring efficiency with three-row mounting of Switch Blocks.
- Finger protection mechanism on Switch Unit provided as a standard feature.
- Use 25-dia. ring to install in 25-dia. panel cutouts.
- Mounted using either open-type (fork-type) or closed-type (round-type) crimp terminals.
- IP65 oil resistance (non-lighted models)
  IP65 (lighted models)



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

Model Number Structure

Model Number Legend.....Shipped as a set which includes the Selector, Lamp (lighted models only), and Switch.
For information on combinations, refer to *Ordering Information* on pages 2 to 4.

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

A 22 W - 2M G - 6A - 11

(1) Lighted/Non-lighted

Code	Description
S	Non-lighted
W	Lighted

(2) Number of Notches/Reset Method

Code	Number of Notches	Reset Method
2M	2 notches	Manual
2A		Automatic
3M	3 notches	Manual
3A		Automatic

(3) Illumination Color

Code	Color
R	Red
G	Green
Y	Yellow
A	Blue
None	Black*

* For non-lighted models only

(4) Light Source
Without Voltage Reduction Unit

Code	Type	Operating Voltage
None	Non-lighted	
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 models.

(5) Contacts

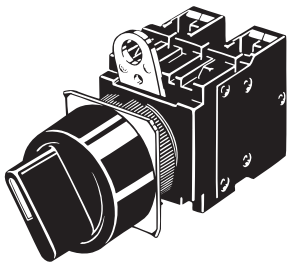
Code	Description
10	SPST-NO *
01	SPST-NC *
11	SPST-NO + SPST-NC
20	SPST-NO + SPST-NO
02	SPST-NC + SPST-NC

* For models with 2 notches
Note: The contacts are rated for standard loads. For microloads, refer to Accessories section for the A22.

Ordering Information

Completely Assembled ..... Shipped as a set which includes the Selector, Lamp (lighted models only), and Switch.

Non-lighted Knob-type Selector Switch

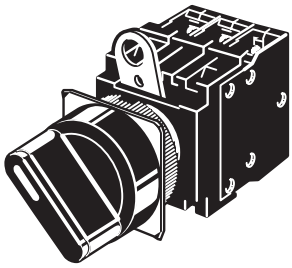
Appearance	Number of notches	Resetting method	Output	Model	Color of Selector
Knob-type Selector Switch A22S 	2 notches	Manual	SPST-NO	**A22S-2M-10**	Black
			SPST-NC	**A22S-2M-01**	
			SPST-NO + SPST-NC	**A22S-2M-11**	
			SPST-NO + SPST-NO	**A22S-2M-20**	
			SPST-NC + SPST-NC	**A22S-2M-02**	
		Automatic	SPST-NO	**A22S-2A-10**	
			SPST-NC	**A22S-2A-01**	
			SPST-NO + SPST-NC	**A22S-2A-11**	
			SPST-NO + SPST-NO	**A22S-2A-20**	
			SPST-NC + SPST-NC	**A22S-2A-02**	
	3 notches	Manual	SPST-NO + SPST-NC	**A22S-3M-11**	
			SPST-NO + SPST-NO	**A22S-3M-20**	
			SPST-NC + SPST-NC	**A22S-3M-02**	
		Automatic	SPST-NO + SPST-NC	**A22S-3A-11**	
			SPST-NO + SPST-NO	**A22S-3A-20**	
			SPST-NC + SPST-NC	**A22S-3A-02**	

Note: The contact ratings are for standard loads.

Ordering Information

Completely Assembled.....Shipped as a set which includes the Selector, Lamp (lighted models only), and Switch.

Lighted Knob-type Selector Switch

Appearance	Number of notches	Resetting method	Output	Operating voltage	Model	Illumination color
Knob-type Selector Switch A22W LED lighting (without Voltage Reduction Unit) 	2 notches	Manual	SPST-NO	6 VAC/VDC	**A22W-2M□-6A-10**	R (red) Y (yellow) G (green) A (blue)
				12 VAC/VDC	**A22W-2M□-12A-10**	
				24 VAC/VDC	**A22W-2M□-24A-10**	
			SPST-NC	6 VAC/VDC	**A22W-2M□-6A-01**	
				12 VAC/VDC	**A22W-2M□-12A-01**	
				24 VAC/VDC	**A22W-2M□-24A-01**	
			SPST-NO + SPST-NC	6 VAC/VDC	**A22W-2M□-6A-11**	
				12 VAC/VDC	**A22W-2M□-12A-11**	
				24 VAC/VDC	**A22W-2M□-24A-11**	
			SPST-NO + SPST-NO	6 VAC/VDC	**A22W-2M□-6A-20**	
				12 VAC/VDC	**A22W-2M□-12A-20**	
				24 VAC/VDC	**A22W-2M□-24A-20**	
			SPST-NC + SPST-NC	6 VAC/VDC	**A22W-2M□-6A-02**	
				12 VAC/VDC	**A22W-2M□-12A-02**	
				24 VAC/VDC	**A22W-2M□-24A-02**	
		Automatic	SPST-NO	6 VAC/VDC	**A22W-2A□-6A-10**	
				12 VAC/VDC	**A22W-2A□-12A-10**	
				24 VAC/VDC	**A22W-2A□-24A-10**	
			SPST-NC	6 VAC/VDC	**A22W-2A□-6A-01**	
				12 VAC/VDC	**A22W-2A□-12A-01**	
				24 VAC/VDC	**A22W-2A□-24A-01**	
			SPST-NO + SPST-NC	6 VAC/VDC	**A22W-2A□-6A-11**	
				12 VAC/VDC	**A22W-2A□-12A-11**	
				24 VAC/VDC	**A22W-2A□-24A-11**	
			SPST-NO + SPST-NO	6 VAC/VDC	**A22W-2A□-6A-20**	
				12 VAC/VDC	**A22W-2A□-12A-20**	
				24 VAC/VDC	**A22W-2A□-24A-20**	
			SPST-NC + SPST-NC	6 VAC/VDC	**A22W-2A□-6A-02**	
				12 VAC/VDC	**A22W-2A□-12A-02**	
				24 VAC/VDC	**A22W-2A□-24A-02**	
	3 notches	Manual	SPST-NO + SPST-NC	6 VAC/VDC	**A22W-3M□-6A-11**	
				12 VAC/VDC	**A22W-3M□-12A-11**	
				24 VAC/VDC	**A22W-3M□-24A-11**	
			SPST-NO + SPST-NO	6 VAC/VDC	**A22W-3M□-6A-20**	
				12 VAC/VDC	**A22W-3M□-12A-20**	
				24 VAC/VDC	**A22W-3M□-24A-20**	
			SPST-NC + SPST-NC	6 VAC/VDC	**A22W-3M□-6A-02**	
				12 VAC/VDC	**A22W-3M□-12A-02**	
				24 VAC/VDC	**A22W-3M□-24A-02**	
		Automatic	SPST-NO + SPST-NC	6 VAC/VDC	**A22W-3A□-6A-11**	
				12 VAC/VDC	**A22W-3A□-12A-11**	
				24 VAC/VDC	**A22W-3A□-24A-11**	
			SPST-NO + SPST-NO	6 VAC/VDC	**A22W-3A□-6A-20**	
				12 VAC/VDC	**A22W-3A□-12A-20**	
				24 VAC/VDC	**A22W-3A□-24A-20**	
			SPST-NC + SPST-NC	6 VAC/VDC	**A22W-3A□-6A-02**	
				12 VAC/VDC	**A22W-3A□-12A-02**	
				24 VAC/VDC	**A22W-3A□-24A-02**	

Note: 1. When ordering, specify the symbol that indicates color of the Selector in the □ of the model number.
2. The contact ratings are for standard loads.

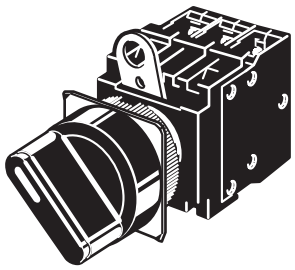
Individual models: Refer to pages 6 to 7.
(The Selector, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.
■ Accessories and tools: Refer to the A22.

Ordering Information

Completely Assembled ..... Shipped as a set which includes the Selector, Lamp (lighted models only), and Switch.

Lighted Knob-type Selector Switch

Appearance	Number of notches	Resetting method	Output	Operating voltage	Model	Selector symbol (color)
Knob-type Selector Switch A22W LED voltage-reduction lighting (with Voltage Reduction Unit) 	2 notches	Manual	SPST-NO	100 VAC	**A22W-2M□-T1-10**	R (red) Y (yellow) G (green) A (blue)
				200 VAC	**A22W-2M□-T2-10**	
			SPST-NC	100 VAC	**A22W-2M□-T1-01**	
				200 VAC	**A22W-2M□-T2-01**	
			SPST-NO + SPST-NC	100 VAC	**A22W-2M□-T1-11**	
				200 VAC	**A22W-2M□-T2-11**	
			SPST-NO + SPST-NO	100 VAC	**A22W-2M□-T1-20**	
				200 VAC	**A22W-2M□-T2-20**	
			SPST-NC + SPST-NC	100 VAC	**A22W-2M□-T1-02**	
				200 VAC	**A22W-2M□-T2-02**	
		Automatic	SPST-NO	100 VAC	**A22W-2A□-T1-10**	
				200 VAC	**A22W-2A□-T2-10**	
			SPST-NC	100 VAC	**A22W-2A□-T1-01**	
				200 VAC	**A22W-2A□-T2-01**	
			SPST-NO + SPST-NC	100 VAC	**A22W-2A□-T1-11**	
				200 VAC	**A22W-2A□-T2-11**	
			SPST-NO + SPST-NO	100 VAC	**A22W-2A□-T1-20**	
				200 VAC	**A22W-2A□-T2-20**	
			SPST-NC + SPST-NC	100 VAC	**A22W-2A□-T1-02**	
				200 VAC	**A22W-2A□-T2-02**	
	3 notches	Manual	SPST-NO + SPST-NC	100 VAC	**A22W-3M□-T1-11**	
				200 VAC	**A22W-3M□-T2-11**	
			SPST-NO + SPST-NO	100 VAC	**A22W-3M□-T1-20**	
				200 VAC	**A22W-3M□-T2-20**	
			SPST-NC + SPST-NC	100 VAC	**A22W-3M□-T1-02**	
				200 VAC	**A22W-3M□-T2-02**	
		Automatic	SPST-NO + SPST-NC	100 VAC	**A22W-3A□-T1-11**	
				200 VAC	**A22W-3A□-T2-11**	
			SPST-NO + SPST-NO	100 VAC	**A22W-3A□-T1-20**	
				200 VAC	**A22W-3A□-T2-20**	
			SPST-NC + SPST-NC	100 VAC	**A22W-3A□-T1-02**	
				200 VAC	**A22W-3A□-T2-02**	

Note: 1. When ordering, specify the symbol that indicates color of the Selector in the □ of the model number.
2. The contact ratings are for standard loads.

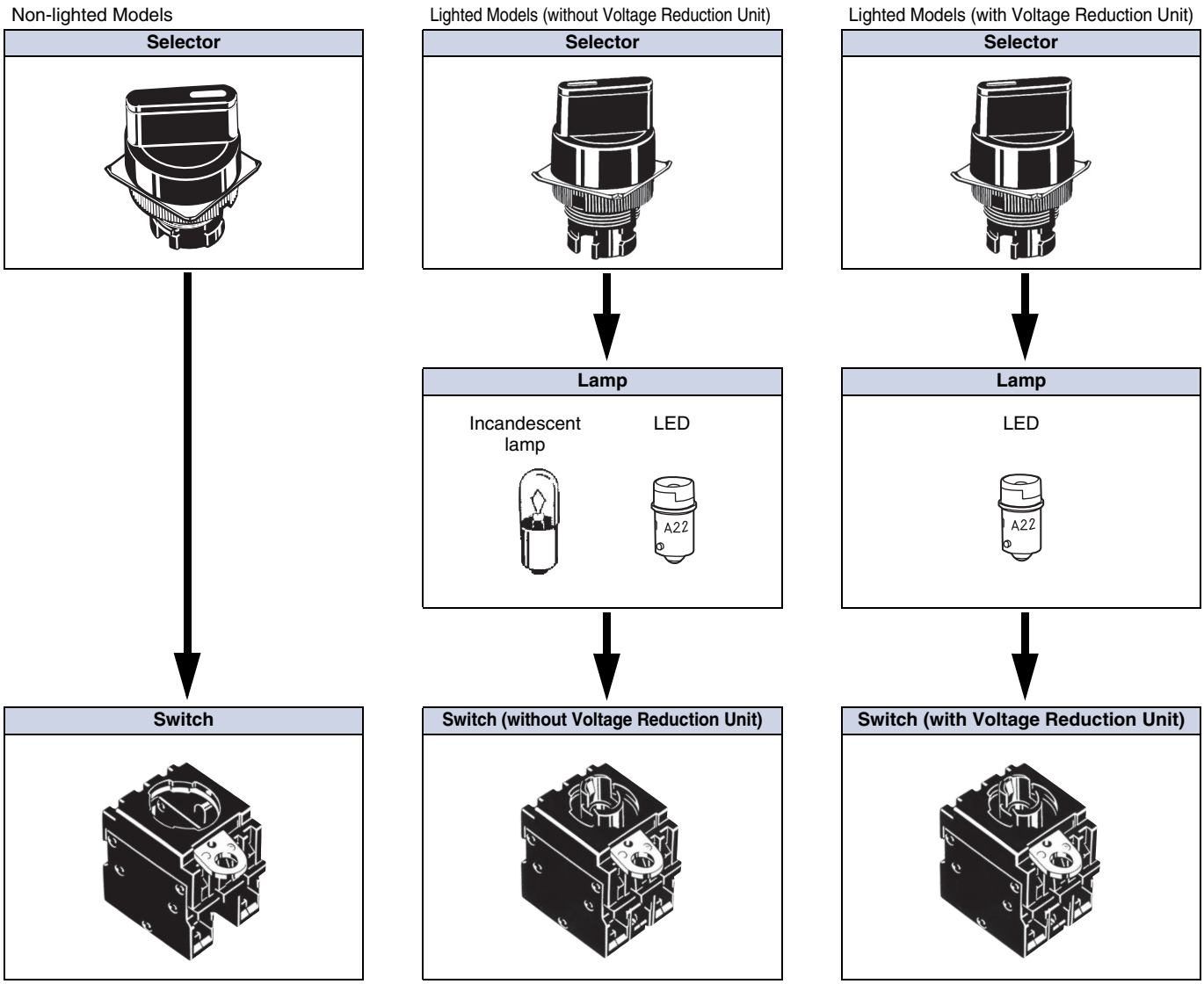
Individual models: Refer to pages 6 to 7.
(The Selector, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.
■ Accessories and tools: Refer to the A22.

Ordering Information

Completely Assembled..... The Selector, Lamp, or Switch 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 the model from the listing starting on page 6.



Set models: Refer to pages 2 to 4.

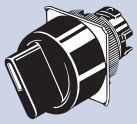
■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.
■ Accessories and tools: Refer to the A22.

Ordering Information

Subassembled..... The Selector, Lamp, or Switch 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.

Selectors

Non-lighted (Color: Only Black is Available)

Sealing		IP65 (oil-resistant)
Appearance		Standard lever 
Notches	Reset method	Model
2 notches	Manual	A22S-2M
	Automatic	A22S-2A
3 notches	Manual	A22S-3M
	Automatic	A22S-3A

Sealing		IP65 (oil-resistant)
Appearance		Long lever
Notches	Reset method	Model
2 notches	Manual	A22S-C2M
	Automatic	A22S-C2A
3 notches	Manual	A22S-C3M
	Automatic	A22S-C3A

Lighted

Sealing			IP65
Appearance			Standard lever
Notches	Reset method	Selector color	Model
2 notches	Manual	Red	A22W-2MR
		Green	A22W-2MG
		Yellow	A22W-2MY
		Blue	A22W-2MA
	Automatic	Red	A22W-2AR
		Green	A22W-2AG
		Yellow	A22W-2AY
		Blue	A22W-2AA
3 notches	Manual	Red	A22W-3MR
		Green	A22W-3MG
		Yellow	A22W-3MY
		Blue	A22W-3MA
	Automatic	Red	A22W-3AR
		Green	A22W-3AG
		Yellow	A22W-3AY
		Blue	A22W-3AA

Note: Either incandescent lamps or LED lamps can be used with the above models.

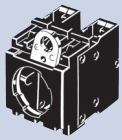
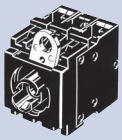
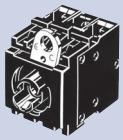
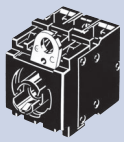
Set models: Refer to pages 2 to 4.

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.
■ Accessories and tools: Refer to the A22.

Ordering Information

Subassembled ..... The Selector, Lamp, or Switch 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.

Switches (Standard Load)

Appearance	Non-lighted	Lighted		
		Without Voltage Reduction Unit	With Voltage Reduction Unit 110 VAC	With Voltage Reduction Unit 220 VAC
				
Contacts	Model			
SPST-NO	A22-10M	A22L-10M	A22L-10M-T1	A22L-10M-T2
SPST-NC	A22-01M	A22L-01M	A22L-01M-T1	A22L-01M-T2
SPST-NO + SPST-NC	A22-11M	A22L-11M	A22L-11M-T1	A22L-11M-T2
SPST-NO + SPST-NO	A22-20M	A22L-20M	A22L-20M-T1	A22L-20M-T2
SPST-NC + SPST-NC	A22-02M	A22L-02M	A22L-02M-T1	A22L-02M-T2

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

Lamps

LED Lamp

Operating voltage			6 V	12 V	24 V
Appearance		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 Selector color is yellow or white.

Incandescent Lamp

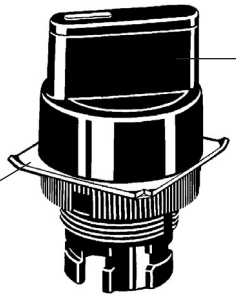
Appearance Operating voltage	5 VAC/VDC	12 VAC/VDC	24 VAC/VDC
	A22-5	A22-12	A22-24

Set models: Refer to pages 2 to 4.

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.
■ Accessories and tools: Refer to the A22.

Nomenclature

Model Structure



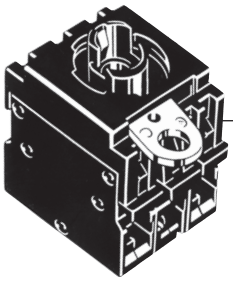
Lock Ring

Selector

- **Number of Notches**
  2 notches/3 notches
- **Applicable Colors**
  Non-lighted: Black
  Lighted: Red, Green Yellow, Blue

Lamp

- **Light Source**
  LED lamp
  Incandescent lamp



Switch

- **Contacts**
  SPST-NO, SPST-NC, SPST-NO + SPST-NC,
  SPST-NO + SPST-NO, SPST-NC + SPST-NC
  (Minimum applicable load: 10 mA at 5 VDC)
- **Lighting Method**
  Non-lighted
  Lighted (without Voltage Reduction Unit)
  Lighted (with Voltage Reduction Unit)

■ Specifications: Refer to the A22.
■ Dimensions: Refer to page 10.
■ Precautions for correct use: Refer to the A22.
■ Accessories and tools: Refer to the A22.

Nomenclature

Contacts

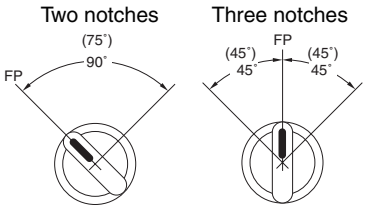
2-notch Type

Knob position	SPST-NO	SPST-NC	SPST-NO + SPST-NC	SPST-NO + SPST-NO	SPST-NC + SPST-NC

3-notch Type

Knob position	SPST-NO + SPST-NC	SPST-NO + SPST-NO	SPST-NC + SPST-NC

Operation Angle

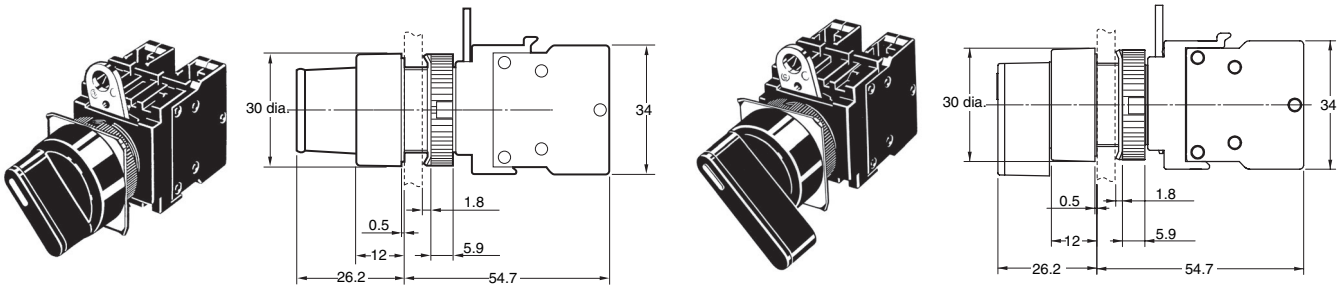


Note: 1. The angle used for automatic reset is shown in parentheses.
2. FP: Free Position

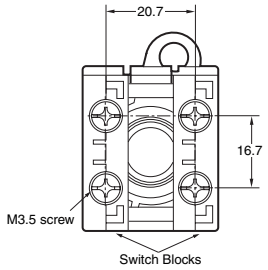
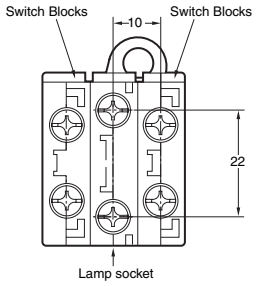
Dimensions

Knob-type Selector Switch (Lighted/Non-lighted)

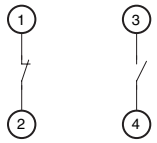
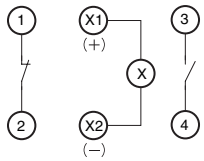
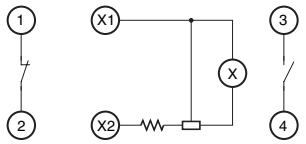
Knob-type Selector Switch **A22S/A22W** **A22S-C**



Terminal Arrangement (Bottom View)

Non-lighted	Lighted
	

Terminal Connection

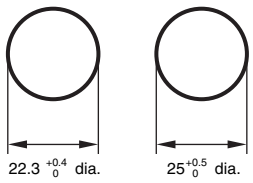
Type	Connection diagram
Non-lighted	Bottom view 
Lighted without Voltage Reduction Unit	Bottom view 
Lighted with Voltage Reduction Unit	Bottom view 

Note: The above terminal connection diagrams are examples for SPST-NO + SPST-NC.

Accessories

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

Panel Cutouts



- 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.

Safety Precautions

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

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