

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 (roundtype) 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) Lighted/Non-lighted

Code	Description
S	Non-lighted
W	Lighted
	•

(3) Illumination Color

Code	Color
R	Red
G	Green
Υ	Yellow
Α	Blue
None	Black*

^{*} For non-lighted models only

(2) Number of Notches/Reset Method

Code	Number of Notches	Reset Method
2M	2 notches	Manual
2A	2 110101163	Automatic
ЗМ	3 notches	Manual
3A	3 HOLGHES	Automatic

(4) Light Source Without Voltage Reduction Unit

Code	Туре	Operating Voltage
None	N	lon-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	Туре	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.

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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			SPST-NO	A22S-2M-10				
A22S			SPST-NC	A22S-2M-01				
		Manual	SPST-NO + SPST-NC	A22S-2M-11				
			SPST-NO + SPST-NO	A22S-2M-20				
	2 notches		SPST-NC + SPST-NC	A22S-2M-02				
	2 Holdnes	Automatic	SPST-NO	A22S-2A-10				
			SPST-NC	A22S-2A-01	Black			
			SPST-NO + SPST-NC	A22S-2A-11				
			SPST-NO + SPST-NO	A22S-2A-20				
			SPST-NC + SPST-NC	A22S-2A-02				
	0		SPST-NO + SPST-NC	A22S-3M-11				
		Manual	SPST-NO + SPST-NO	A22S-3M-20				
		01 -1	0	0	0		SPST-NC + SPST-NC	A22S-3M-02
	3 notches		SPST-NO + SPST-NC	A22S-3A-11				
	A	Automatic	SPST-NO + SPST-NO	A22S-3A-20				
			SPST-NC + SPST-NC	A22S-3A-02				

Note: The contact ratings are for standard loads.

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 cold
nob-type Selector Switch				6 VAC/VDC	A22W-2M□-6A-10	
A22W LED lighting (without Voltage Reduction Unit)			SPST-NO	12 VAC/VDC	A22W-2M□-12A-10	
				24 VAC/VDC	A22W-2M□-24A-10	
		-		6 VAC/VDC	A22W-2M□-6A-01	
minout voltage rioddollon Omi,			SPST-NC	12 VAC/VDC	A22W-2M□-12A-01	
				24 VAC/VDC	A22W-2M□-24A-01	
			0007.110	6 VAC/VDC	A22W-2M□-6A-11	
		Manual	SPST-NO + SPST-NC	12 VAC/VDC	A22W-2M□-12A-11	
			3F31-NC	24 VAC/VDC	A22W-2M□-24A-11	
		-	ODOT NO	6 VAC/VDC	A22W-2M□-6A-20	
			SPST-NO + SPST-NO	12 VAC/VDC	A22W-2M□-12A-20	
			5P51-NO	24 VAC/VDC	A22W-2M□-24A-20	
			0007.110	6 VAC/VDC	A22W-2M□-6A-02	
			SPST-NC +	12 VAC/VDC	A22W-2M□-12A-02	
	0		SPST-NC	24 VAC/VDC	A22W-2M□-24A-02	
	2 notches			6 VAC/VDC	A22W-2A□-6A-10	
			SPST-NO	12 VAC/VDC	A22W-2A -12A-10	
_				24 VAC/VDC	A22W-2A -24A-10	
				6 VAC/VDC	A22W-2A□-6A-01	
			SPST-NC	12 VAC/VDC	A22W-2A -12A-01	
				24 VAC/VDC	A22W-2A -24A-01	
				6 VAC/VDC	A22W-2A□-6A-11	
		Automatic	SPST-NO + SPST-NC	12 VAC/VDC	A22W-2A□-12A-11	R (red) Y (yellow)
				24 VAC/VDC	A22W-2A□-24A-11	
			SPST-NO + SPST-NO	6 VAC/VDC	A22W-2A□-6A-20	G (green)
				12 VAC/VDC	A22W-2A□-12A-20	A (blue)
				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	
			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	
		Manual		12 VAC/VDC	A22W-3M□-12A-20	
				24 VAC/VDC	A22W-3M□-24A-20	
			ODOT NO	6 VAC/VDC	A22W-3M□-6A-02	
			SPST-NC + SPST-NC	12 VAC/VDC	A22W-3M□-12A-02	
	0 11		SPS1-NC	24 VAC/VDC	A22W-3M□-24A-02	
	3 notches		ODOT 110	6 VAC/VDC	A22W-3A□-6A-11	
			SPST-NO +	12 VAC/VDC	A22W-3A□-12A-11	
			SPST-NC	24 VAC/VDC	A22W-3A□-24A-11	
			0007.110	6 VAC/VDC	A22W-3A□-6A-20	
		Automatic	SPST-NO +	12 VAC/VDC	A22W-3A□-12A-20	
			SPST-NO	24 VAC/VDC	A22W-3A□-24A-20	
				6 VAC/VDC	A22W-3A□-6A-02	
			SPST-NC +	12 VAC/VDC	A22W-3A -12A-02	
			SPST-NC	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.

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	Reset- ting method	Output	Operating voltage	Model	Selector symbol (color)	
Knob-type Selector Switch			SPST-NO	100 VAC	A22W-2M□-T1-10		
A22W			31 31-110	200 VAC	A22W-2M□-T2-10		
LED voltage-reduction lighting (with Voltage Reduction Unit)			SPST-NC	100 VAC	A22W-2M□-T1-01		
(Will Foliage Floadeller Chill)			3F31-NC	200 VAC	A22W-2M□-T2-01		
		Manual	SPST-NO +	100 VAC	A22W-2M□-T1-11		
		Iviariuai	SPST-NC	200 VAC	A22W-2M□-T2-11		
			SPST-NO +	100 VAC	A22W-2M□-T1-20		
			SPST-NO	200 VAC	A22W-2M□-T2-20		
			SPST-NC +	100 VAC	A22W-2M□-T1-02		
	2 notches		SPST-NC	200 VAC	A22W-2M□-T2-02		
	2 notches		SPST-NO	100 VAC	A22W-2A□-T1-10		
			3F31-NO	200 VAC	A22W-2A□-T2-10		
			SPST-NC	100 VAC	A22W-2A□-T1-01		
		Automatic		200 VAC	A22W-2A□-T2-01	R (red) Y (yellow) G (green) A (blue)	
			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		
		Manual	SPST-NO +	100 VAC	A22W-3M□-T1-11		
			SPST-N	SPST-NC	200 VAC	A22W-3M□-T2-11	1
			Manual SPST-NO +	100 VAC	A22W-3M□-T1-20		
		Mariaar	SPST-NO	200 VAC	A22W-3M□-T2-20		
			SPST-NC +	100 VAC	A22W-3M□-T1-02		
	3 notches		SPST-NC	200 VAC	A22W-3M□-T2-02		
	0 110101100		SPST-NO +	100 VAC	A22W-3A□-T1-11		
			SPST-NC	200 VAC	A22W-3A□-T2-11	- - - -	
		Automatic	SPST-NO +	100 VAC	A22W-3A□-T1-20		
		, atomatic	SPST-NO	200 VAC	A22W-3A□-T2-20		
			SPST-NC +	100 VAC	A22W-3A□-T1-02		
			SPST-NC	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.

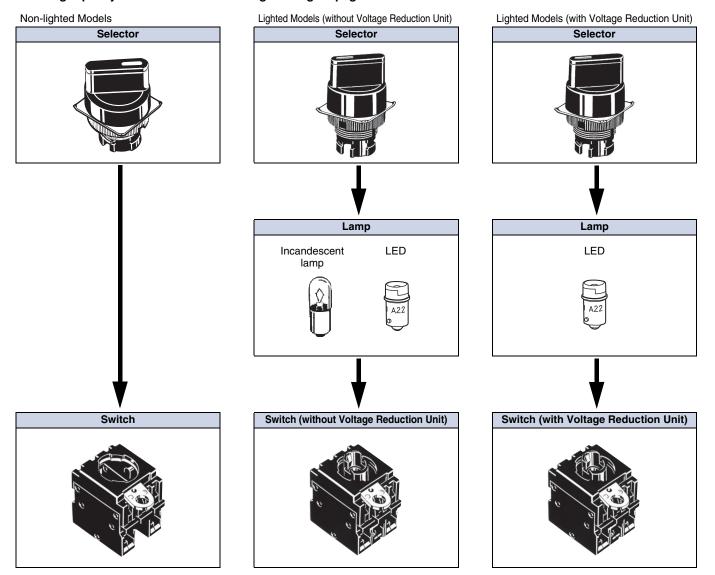
Individual models: Refer to pages 6 to 7.

(The Selector, Lamp, and Switch can be ordered separately.)

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

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.

Selectors

Non-lighted (Color: Only Black is Available)

		1505 (11 1 1 1 1 1
	Sealing	IP65 (oil-resistant)
	Appearance	Standard lever
Notches	Reset method	Model
2 notches	Manual	A22S-2M
2 Hotorics	Automatic	A22S-2A
3 notches	Manual	A22S-3M
	Automatic	A22S-3A

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

Lighted

		IP65	
	Αŗ	ppearance	Standard lever
Notches	Reset method	Selector color	Model
		Red	A22W-2MR
	Manual	Green	A22W-2MG
		Yellow	A22W-2MY
2 notches		Blue	A22W-2MA
Z HOLCHES	Automatic	Red	A22W-2AR
	Automatic	Green	A22W-2AG
		Yellow	A22W-2AY
		Blue	A22W-2AA
	Manual	Red	A22W-3MR
	wanual	Green	A22W-3MG
		Yellow	A22W-3MY
3 notches	•	Blue	A22W-3MA
	Automatic	Red	A22W-3AR
	Automatic	Green	A22W-3AG
		Yellow	A22W-3AY
		Blue	A22W-3AA

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

Set models: Refer to pages 2 to 4.

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

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)

	Non-lighted	Lighted			
Appearance		Without Voltage Reduction Unit	With Voltage Reduction Unit 110 VAC	With Voltage Reduction Unit 220 VAC	
Contacts		Mo	odel	<u> </u>	
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

O	perating vo	oltage	6 V	12 V	24 V	
Appearance LED light		LED light	Model			
	Red	A22-6AR				
	AC and	Green	A22-6AG			
		Yellow*	A22-6AY			
		Blue	A22-6AA			
A22 DC	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 \square . Only 24-V LED lamps can be used. * Used when the Selector color is yellow or white.

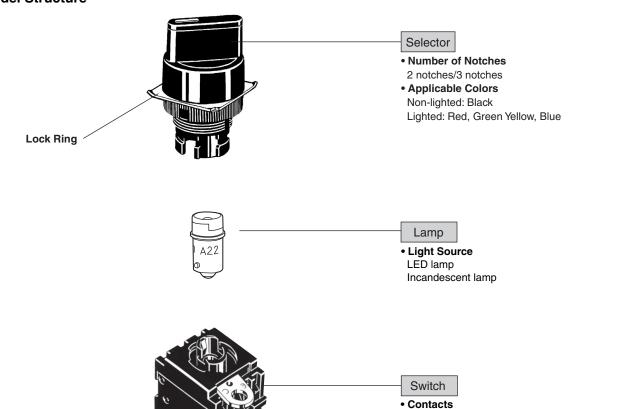
Incandescent Lamp

Appear-	Operating voltage	5 VAC/VDC	12 VAC/VDC	24 VAC/VDC
	J	A22-5	A22-12	A22-24

Set models: Refer to pages 2 to 4.

■ Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

Model Structure



- 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

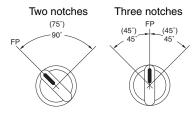
2-notch Type

Knob position	SPST- NO	SPST- NC	SPST-NO + SPST-NC	SPST-NO + SPST-NO	SPST-NC + SPST-NC
\bigcirc	0 0	• • •	0 0	0 0 0 0	•••
\bigcirc	0 0	• , •	0 0 0 • •	0 0 0 0	• • • • •

3-notch Type

Knob position	SPST-NO + SPST-NC	SPST-NO + SPST-NO	SPST-NC + SPST-NC
\bigcirc	0 0	0 0 0 0	•,•
1	0 0	0 0 0 0	•••
\bigcirc	0 0 • •	0 0 0 0	•.•

Operation Angle



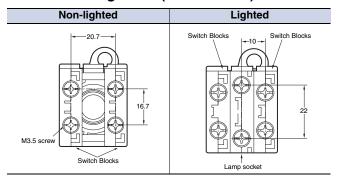
Note: 1. The angle used for automatic reset is shown in parentheses.
2. FP: Free Position

Dimensions

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

Knob-type Selector Switch A22S/A22W A22S-C

Terminal Arrangement (Bottom View)



Terminal Connection

Type	Connection diagram		
	Bottom view		
Non-lighted	2 4		
	Bottom view		
Lighted without Voltage Reduction Unit	① X1 3 (+) X 2 (2 (2) (-)		
	Bottom view		
Lighted with Voltage Reduction Unit	(1) (N) (3) (X) (4) (2) (2) (2) (4)		

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

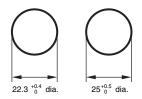
Accessories

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

Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches and Safety Precautions 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.

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

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The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

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- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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CHANGE IN SPECIFICATIONS

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It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

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In the interest of product improvement, specifications are subject to change without notice.

