CSM\_A22□\_DS\_E\_4\_1

## Install in 22-dia, or 25-dia, Panel Cutout

- Lever for easily mounting and removing the Switch Unit
- 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)



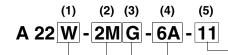
Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions for the A22.



#### **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*

<sup>\*</sup> For non-lighted models only

#### (2) Number of Notches/Reset Method

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

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

#### (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-	5 VAC/VDC
12	descent	12 VAC/VDC
24	lamp	24 VAC/VDC

#### With Voltage Reduction Unit

Code	Туре	Operating Voltage
T1	LFD	100 VAC
T2	LLD	200 VAC

<sup>•</sup> 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

<sup>\*</sup> For models with 2 notches Note: The contacts are rated for standard loads. For microloads, refer to Accessories section for

**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 Holdries		SPST-NO	A22S-2A-10			
			SPST-NC	A22S-2A-01			
		Automatic	Automatic	SPST-NO + SPST-NC	A22S-2A-11	Black	
		1				SPST-NO + SPST-NO	A22S-2A-20
			SPST-NC + SPST-NC	A22S-2A-02			
	Mar 3 notches		SPST-NO + SPST-NC	A22S-3M-11			
			Manual	SPST-NO + SPST-NO	A22S-3M-20		
			SPST-NC + SPST-NC	A22S-3M-02			
		3 notches	3 notches	SPST-NO + SPST-NC	A22S-3A-11		
		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 color
Knob-type Selector Switch	Switch		SPST-NO	6 VAC/VDC	A22W-2M□-6A-10	
A22W				12 VAC/VDC	A22W-2M□-12A-10	
LED lighting				24 VAC/VDC	A22W-2M□-24A-10	
without Voltage Reduction Unit)				6 VAC/VDC	A22W-2M□-6A-01	
willout voltage Houdelleri Griti,			SPST-NC	12 VAC/VDC	A22W-2M□-12A-01	1
				24 VAC/VDC	A22W-2M□-24A-01	7
			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	1
			0007.110	6 VAC/VDC	A22W-2M□-6A-20	
			SPST-NO +	12 VAC/VDC	A22W-2M□-12A-20	7
			SPST-NO	24 VAC/VDC	A22W-2M□-24A-20	<del>-</del>
				6 VAC/VDC	A22W-2M□-6A-02	<del> </del>
			SPST-NC +	12 VAC/VDC	A22W-2M□-12A-02	+
			SPST-NC	24 VAC/VDC	A22W-2M□-24A-02	<del>- </del>
	2 notches			6 VAC/VDC	A22W-2A□-6A-10	
			SPST-NO	12 VAC/VDC	A22W-2A□-12A-10	<del> </del>
				24 VAC/VDC	A22W-2A□-24A-10	<del> </del>
				6 VAC/VDC	A22W-2A□-6A-01	<del> </del>
			SPST-NC	12 VAC/VDC	A22W-2A -12A-01	<del>- </del>
			0. 0	24 VAC/VDC	A22W-2A -24A-01	+
				6 VAC/VDC	A22W-2A□-6A-11	+
		Automatic	SPST-NO +	12 VAC/VDC	A22W-2A□-12A-11	R (red) Y (yellow)
			SPST-NC	24 VAC/VDC	A22W-2A -24A-11	
				6 VAC/VDC	A22W-2A□-6A-20	G (green)
			SPST-NO +	12 VAC/VDC	A22W-2A -0A-20 A22W-2A -12A-20	A (blue)
			SPST-NO	24 VAC/VDC	A22W-2A - 12A-20	
		-		6 VAC/VDC	A22W-2A - 6A-02	<del>- </del>
			SPST-NC +	12 VAC/VDC	A22W-2A -0A-02	_
			SPST-NC	24 VAC/VDC	A22W-2A - 12A-02 A22W-2A - 24A-02	+
				6 VAC/VDC	A22W-3M□-6A-11	+
			SPST-NO +	12 VAC/VDC	A22W-3M□-0A-11	_
			SPST-NC	24 VAC/VDC	A22W-3M□-12A-11	<del> </del>
				6 VAC/VDC	A22W-3M□-24A-11	
		Manual	SPST-NO + SPST-NO	12 VAC/VDC	A22W-3M□-0A-20 A22W-3M□-12A-20	
		Ivialiuai		24 VAC/VDC	A22W-3M□-12A-20	
				6 VAC/VDC	A22W-3M□-24A-20 A22W-3M□-6A-02	
			SPST-NC +	12 VAC/VDC		
			SPST-NC		A22W-3M - 12A-02	
	3 notches			24 VAC/VDC	A22W-3M -24A-02	_
			SPST-NO +	6 VAC/VDC	A22W-3A -6A-11	<del>- </del>
			SPST-NC	12 VAC/VDC	A22W-3A -12A-11	_
				24 VAC/VDC	A22W-3A -24A-11	-
		A t a t ! .	SPST-NO +	6 VAC/VDC	A22W-3A -6A-20	_
		Automatic	SPST-NO	12 VAC/VDC	A22W-3A -12A-20	
				24 VAC/VDC	A22W-3A -24A-20	
			SPST-NC +	6 VAC/VDC	A22W-3A□-6A-02	
			SPST-NC	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.)

<sup>■</sup> Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

<sup>■</sup> Accessories and tools: Refer to the A22.

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				200 VAC	A22W-2M□-T2-10			
LED voltage-reduction lighting (with Voltage Reduction Unit)			SPST-NC	100 VAC	A22W-2M□-T1-01			
with voilage reduction only			SPS1-NC	200 VAC	A22W-2M□-T2-01			
		Manual	SPST-NO +	100 VAC	A22W-2M□-T1-11			
		Manual	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			
			SPST-NC	200 VAC	A22W-2M□-T2-02			
	2 notches		ODOT NO	100 VAC	A22W-2A□-T1-10	-		
			SPST-NO	200 VAC	A22W-2A□-T2-10			
			ODOT NO	100 VAC	A22W-2A□-T1-01	R (red) Y (yellow) G (green) A (blue)		
		Automatic	SPST-NC	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 +	100 VAC	A22W-2A□-T1-02			
			SPST-NC	200 VAC	A22W-2A□-T2-02			
			SPST-NO + SPST-NC	100 VAC	A22W-3M□-T1-11			
				200 VAC	A22W-3M□-T2-11			
		Manual	SPST-NO +	100 VAC	A22W-3M□-T1-20			
		Manual	SPST-NO	200 VAC	A22W-3M□-T2-20	†		
			SPST-NC +	100 VAC	A22W-3M□-T1-02			
	0		SPST-NC	200 VAC	A22W-3M□-T2-02	†		
	3 notches		3 notches	les SPS	SPST-NO +	100 VAC	A22W-3A□-T1-11	
			SPST-NC	200 VAC	A22W-3A□-T2-11	†		
		Automotic	SPST-NO +	100 VAC	A22W-3A□-T1-20	†		
		Automatic	Automatic		SPST-NO	200 VAC	A22W-3A□-T2-20	İ
			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.

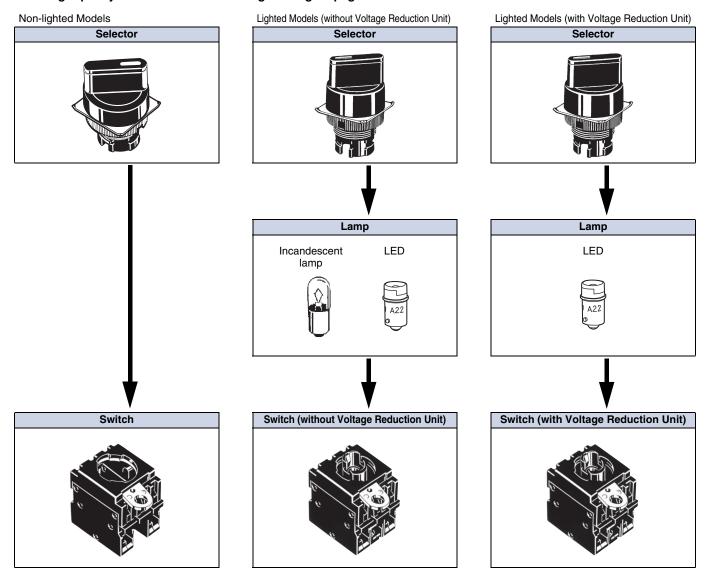
(The Selector, Lamp, and Switch can be ordered separately.)

<sup>■</sup> Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

<sup>■</sup> Accessories and tools: Refer to the A22.

**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.

<sup>■</sup> Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

<sup>■</sup> Accessories and tools: Refer to the A22.

**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)
	Aŗ	ppearance	Standard lever
Notches	Reset method		Model
2 notches	Manual		A22S-2M
Lilotolics	Automatic	$\bigcirc$	A22S-2A
3 notches	Manual		A22S-3M
o notones	Automatic		A22S-3A

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

#### Lighted

Sealing			IP65	
Appearance		pearance	Standard lever	
Notches	Reset Selector method color		Model	
	N4 1	Red	A22W-2MR	
	Manual	Green	A22W-2MG	
		Yellow	A22W-2MY	
2 notches		Blue	A22W-2MA	
2 Holdies	Automatic	Red	A22W-2AR	
		Green	A22W-2AG	
		Yellow	A22W-2AY	
		Blue	A22W-2AA	
		Red	A22W-3MR	
	Manual	Green	A22W-3MG	
		Yellow	A22W-3MY	
3 notches		Blue	A22W-3MA	
3 notches	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.

<sup>■</sup> Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

<sup>■</sup> Accessories and tools: Refer to the A22.

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	
		Without Voltage Reduction Unit	With Voltage Reduction Unit 110 VAC	With Voltage Reduction Unit 220 VAC
Appearance				
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		oltage	6 VAC/VDC	12 VAC/VDC	24 VAC/VDC
Appearance LED light		LED light	Model		
		Red	A22-6AR	A22-12AR	A22-24AR
	AC and DC	Green	A22-6AG	A22-12AG	A22-24AG
		Yellow*	A22-6AY	A22-12AY	A22-24AY
	Blue	A22-6AA	A22-12AA	A22-24AA	

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

#### **Incandescent Lamp**

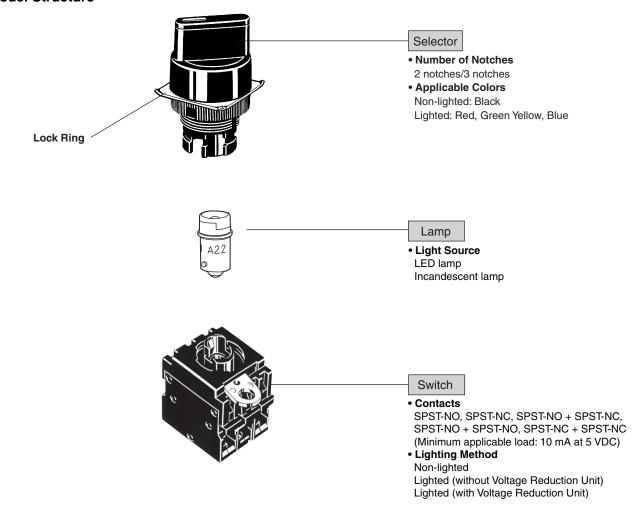
Appear-	Operating voltage	5 VAC/VDC	12 VAC/VDC	24 VAC/VDC
	Unice Vollage	A22-5	A22-12	A22-24

Set models: Refer to pages 2 to 4.

<sup>■</sup> Specifications: Refer to the A22. ■ Dimensions: Refer to page 10.

<sup>■</sup> Accessories and tools: Refer to the A22.

#### **Model Structure**



- $\blacksquare$  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

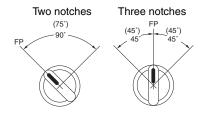
#### 2-notch Type

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	• • • • •
$\bigcirc$	0 0	0 0 0 0	•••
$\bigcirc$	0 0 • •	0 0 0 0	•.•

# **Operation Angle**



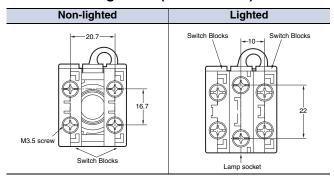
Note: 1. The angle used for automatic reset is shown in parentheses.
2. FP: Free Position

#### **Dimensions**

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

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

#### **Terminal Arrangement (Bottom View)**



#### **Terminal Connection**

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

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

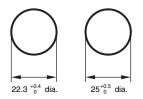
#### **Accessories**

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

# **Safety Precautions**

Refer to Safety Precautions for All Pushbutton Switches/Indicators 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.

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A22S-2M-01 A22S-2M-11S A22S-2M-20 A22S-3A-20 A22W-2AA-12A-01 A22W-2AA-12A-02 A22W-2AA-12A-10 A22W-2AA-12A-11 A22W-2AA-12A-20 A22W-2AA-24A-02 A22W-2AA-24A-11 A22W-2AA-24A-20 A22W-2AA-6A-01 A22W-2AA-6A-02 A22W-2AA-6A-10 A22W-2AA-6A-11 A22W-2AA-6A-20 A22W-2AA-T1-02 A22W-2AA-T1-11 A22W-2AA-T1-20 A22W-2AA-T2-01 A22W-2AA-T2-02 A22W-2AA-T2-10 A22W-2AA-T2-11 A22W-2AA-T2-20 A22W-2AG-24A-01 A22W-2AG-24A-10 A22W-2AG-24A-11 A22W-2AG-T1-01 A22W-2AG-T1-10 A22W-2AG-T1-11 A22W-2AR-24A-01 A22W-2AR-24A-10 A22W-2AR-24A-11 A22W-2AR-T1-01 A22W-2AR-T1-10 A22W-2AR-T1-11 A22W-2AY-12A-01 A22W-2AY-12A-02 A22W-2AY-12A-10 A22W-2AY-12A-11 A22W-2AY-12A-20 A22W-2AY-24A-02 A22W-2AY-24A-20 A22W-2AY-6A-01 A22W-2AY-6A-02 A22W-2AY-6A-10 A22W-2AY-6A-11 A22W-2AY-6A-20 A22W-2AY-T1-01 A22W-2AY-T1-10 A22W-2AY-T1-11 A22W-2AY-T2-20 A22W-2MA-12A-01 A22W-2MA-12A-02 A22W-2MA-12A-10 A22W-2MA-12A-11 A22W-2MA-12A-20 A22W-2MA-24A-02 A22W-2MA-24A-20 A22W-2MA-6A-01 A22W-2MA-6A-02 A22W-2MA-6A-10 A22W-2MA-6A-11 A22W-2MA-T1-02 A22W-2MA-T1-20 A22W-2MA-T2-01 A22W-2MA-T2-02 A22W-2MA-T2-10 A22W-2MA-T2-11 A22W-2MA-T2-20 A22W-2MG-12A-01 A22W-2MG-12A-02 A22W-2MG-12A-10 A22W-2MG-12A-11 A22W-2MG-12A-20 A22W-2MG-24A-02 A22W-2MG-24A-20 A22W-2MG-6A-01 A22W-2MG-6A-02 A22W-2MG-6A-10 A22W-2MG-6A-11 A22W-2MG-6A-20 A22W-2MG-T1-01 A22W-2MG-T1-02 A22W-2MG-T1-10 A22W-2MG-T1-11 A22W-2MG-T1-20 A22W-2MG-T2-01 A22W-2MG-T2-02 A22W-2MG-T2-10 A22W-2MG-T2-11 A22W-2MG-T2-20 A22W-2MR-12A-01 A22W-2MR-12A-02 A22W-2MR-12A-10 A22W-2MR-12A-11 A22W-2MR-12A-20 A22W-2MR-24A-02 A22W-2MR-24A-20