

### Knob-type Selector Switch

### A22S/W

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

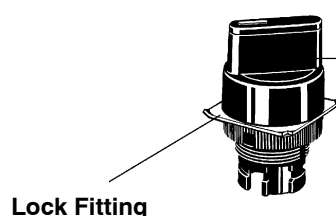
- Illuminated and Non-illuminated models
- Locking lever ensures easy mounting and removal of switch unit
- Increase wiring efficiency and decrease mounting depth with three-row mounting of switch unit contact blocks
- Finger-safe contact blocks
- Use optional 25-mm dia. ring to install in 25-mm dia. panel cutouts



This product was manufactured at OMRON Izumo. OMRON Izumo has obtained approvals from international certification bodies for its quality system and environmental control system.

## Ordering Information

### ■ CONSTRUCTION



#### Operational Unit

Number of Positions:  
2 Positions/3 Positions

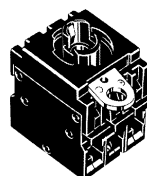
#### Applicable Colors

Non-illuminated: Black  
Illuminated: Red, green, yellow, blue



#### Lamp

- **Light Source**  
LED Lamp  
Incandescent Lamp



#### Switch Unit

- **Contacts**  
SPST-NO, SPST-NC, SPST-NO + SPST-NC, DPST-NO, DPST-NC
- **Lighting Method**  
Non-illuminated  
Illuminated (without transformer)  
Illuminated (with transformer)

## ■ PART NUMBER LEGEND

Shipped as a set which includes the Operational Unit, LED (Illuminated Type only), and Switch Unit.

**A22** 1 - 2 - 3 - 4 - 5

### 1 Illuminated/Non-illuminated

Code	Description
S	Non-illuminated
W	Illuminated

### 3 Operator Color

Code	Description
None	Non-illuminated
R	Red
G	Green
Y	Yellow
A	Blue

### 5 Contacts

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

Note: \* for models with 2 Positions only

Note: SPST= Single Pole, Single Throw  
DPST= Double Pole, Single Throw

### 2 Number of Positions/Reset Method

Code	Description
2M	2 Positions/Maintained
2A	2 Positions/Spring return
3M	3 Positions/Maintained
3A	3 Positions/Spring return
C2M	2 Positions/Maintained extended lever
C2A	2 Positions/Spring return extended lever
C3M	3 Positions/Maintained extended lever
C3A	3 Positions/Spring return extended lever

### 4 Light Source

Without transformer		
Code	Rated Voltage	
None	Non-illuminated	
6D	LED	6 VDC
6A		6 VAC
12A		12 VAC/DC
24A		24 VAC/DC
With transformer		
None	Non-illuminated	
T1	LED	110 VAC*1
T2		220 VAC*2

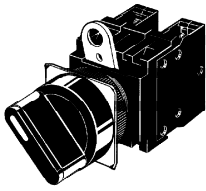




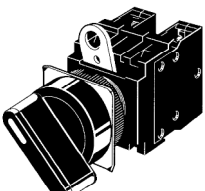




\*1) Operational voltage: 95 to 115 VAC  
\*2) Operational voltage: 190 to 230 VAC

Note: With transformer types, the LED lamp (24 VAC/DC) can be lit by directly applying 110 VAC/DC (220 VAC/DC) to the lamp terminal. The LED is a 24-VAC/DC type.

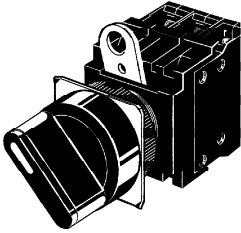


(Actual color of yellow selector switches more closely resembles amber than true yellow.)

# ■ KNOB-TYPE SELECTOR SWITCH

## Non-illuminated

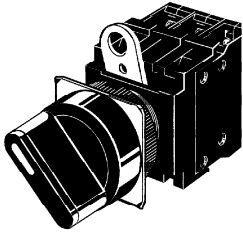

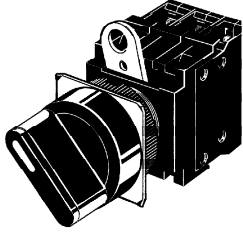

Appearance	Positions	Operating method	Contacts	Operator color	Part number
Knob-type selector switch 	2 positions	Maintained 	SPST-NO	Black	A22S-2M-10
			SPST-NC		A22S-2M-01
			SPST-NO + SPST-NC		A22S-2M-11
			DPST-NO		A22S-2M-20
			DPST-NC		A22S-2M-02
		Spring return 	SPST-NO		A22S-2A-10
			SPST-NC		A22S-2A-01
			SPST-NO + SPST-NC		A22S-2A-11
			DPST-NO		A22S-2A-20
			DPST-NC		A22S-2A-02
	3 positions	Maintained 	SPST-NO + SPST-NC		A22S-3M-11
			DPST-NO		A22S-3M-20
			DPST-NC		A22S-3M-02
		Spring return 	SPST-NO + SPST-NC		A22S-3A-11
			DPST-NO		A22S-3A-20
			DPST-NC		A22S-3A-02
Extended lever knob-type selector switch 	2 positions	Maintained 	SPST-NO	Black	A22S-C2M-10
			SPST-NC		A22S-C2M-01
			SPST-NO + SPST-NC		A22S-C2M-11
			DPST-NO		A22S-C2M-20
			DPST-NC		A22S-C2M-02
		Spring return 	SPST-NO		A22S-C2A-10
			SPST-NC		A22S-C2A-01
			SPST-NO + SPST-NC		A22S-C2A-11
			DPST-NO		A22S-C2A-20
			DPST-NC		A22S-C2A-02
	3 positions	Maintained 	SPST-NO + SPST-NC		A22S-C3M-11
			DPST-NO		A22S-C3M-20
			DPST-NC		A22S-C3M-02
		Spring return 	SPST-NO + SPST-NC		A22S-C3A-11
			DPST-NO		A22S-C3A-20
			DPST-NC		A22S-C3A-02

**Illuminated (Without Transformer)**

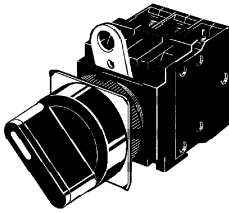





Appearance	Positions	Operating method	Contacts	Rated voltage	Operator color	Part number
Knob-type selector switch LED lighting (without transformer) 	2 positions	Maintained 	SPST-NO	6 VDC	Insert one of the following letters into the box □.  R (red) Y (yellow) G (green) A (blue)	A22W-2M□-6D-10
				6 VAC		A22W-2M□-6A-10
				12 VAC/DC		A22W-2M□-12A-10
				24 VAC/DC		A22W-2M□-24A-10
			SPST-NC	6 VDC		A22W-2M□-6D-01
				6 VAC		A22W-2M□-6A-01
				12 VAC/DC		A22W-2M□-12A-01
				24 VAC/DC		A22W-2M□-24A-01
			SPST-NO + SPST-NC	6 VDC		A22W-2M□-6D-11
				6 VAC		A22W-2M□-6A-11
				12 VAC/DC		A22W-2M□-12A-11
				24 VAC/DC		A22W-2M□-24A-11
			DPST-NO	6 VDC		A22W-2M□-6D-20
				6 VAC		A22W-2M□-6A-20
				12 VAC/DC		A22W-2M□-12A-20
				24 VAC/DC		A22W-2M□-24A-20
			DPST-NC	6 VDC		A22W-2M□-6D-02
				6 VAC		A22W-2M□-6A-02
				12 VAC/DC		A22W-2M□-12A-02
				24 VAC/DC		A22W-2M□-24A-02
		Spring return 	SPST-NO	6 VDC		A22W-2A□-6D-10
				6 VAC		A22W-2A□-6A-10
				12 VAC/DC		A22W-2A□-12A-10
				24 VAC/DC		A22W-2A□-24A-10
			SPST-NC	6 VDC		A22W-2A□-6D-01
				6 VAC		A22W-2A□-6A-01
				12 VAC/DC		A22W-2A□-12A-01
				24 VAC/DC		A22W-2A□-24A-01
			SPST-NO + SPST-NC	6 VDC		A22W-2A□-6D-11
				6 VAC		A22W-2A□-6A-11
				12 VAC/DC		A22W-2A□-12A-11
				24 VAC/DC		A22W-2A□-24A-11
			DPST-NO	6 VDC		A22W-2A□-6D-20
				6 VAC		A22W-2A□-6A-20
				12 VAC/DC		A22W-2A□-12A-20
				24 VAC/DC		A22W-2A□-24A-20
			DPST-NC	6 VDC		A22W-2A□-6D-02
				6 VAC		A22W-2A□-6A-02
				12 VAC/DC		A22W-2A□-12A-02
				24 VAC/DC		A22W-2A□-24A-02

(This table continues on the next page.)

Ordering Information Table - continued from previous page

Appearance	Positions	Operating method	Contacts	Rated voltage	Operator color	Part number
Knob-type selector switch LED lighting (without transformer) 	3 positions	Maintained 	SPST-NO + SPST-NC	6 VDC	Insert one of the following letters into the box □.  R (red) Y (yellow) G (green) A (blue)	A22W-3M□-6D-11
				6 VAC		A22W-3M□-6A-11
				12 VAC/DC		A22W-3M□-12A-11
				24 VAC/DC		A22W-3M□-24A-11
			DPST-NO	6 VDC		A22W-3M□-6D-20
				6 VAC		A22W-3M□-6A-20
				12 VAC/DC		A22W-3M□-12A-20
				24 VAC/DC		A22W-3M□-24A-20
			DPST-NC	6 VDC		A22W-3M□-6D-02
				6 VAC		A22W-3M□-6A-02
				12 VAC/DC		A22W-3M□-12A-02
				24 VAC/DC		A22W-3M□-24A-02
Knob-type selector switch LED lighting (without transformer) 	3 positions	Spring return 	SPST-NO + SPST-NC	6 VDC	Insert one of the following letters into the box □.  R (red) Y (yellow) G (green) A (blue)	A22W-3A□-6D-11
				6 VAC		A22W-3A□-6A-11
				12 VAC/DC		A22W-3A□-12A-11
				24 VAC/DC		A22W-3A□-24A-11
			DPST-NO	6 VDC		A22W-3A□-6D-20
				6 VAC		A22W-3A□-6A-20
				12 VAC/DC		A22W-3A□-12A-20
				24 VAC/DC		A22W-3A□-24A-20
			DPST-NC	6 VDC		A22W-3A□-6D-02
				6 VAC		A22W-3A□-6A-02
				12 VAC/DC		A22W-3A□-12A-02
				24 VAC/DC		A22W-3A□-24A-02

**Illuminated (With Transformer)**

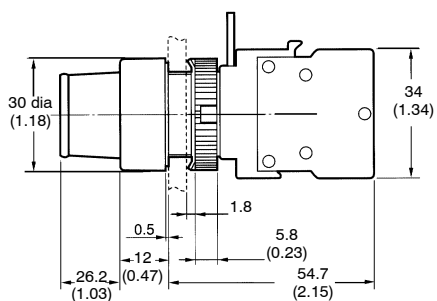
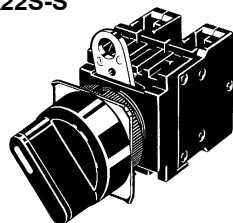
Appearance	Positions	Operating method	Contacts	Rated voltage	Operator color	Part number
Knob-type selector switch LED lighting (with transformer) 	2 positions	Maintained 	SPST-NO	110 VAC	Insert one of the following letters into the box □.  R (red) Y (yellow) G (green) A (blue)	A22W-2M□-T1-10
				220 VAC		A22W-2M□-T2-10
			SPST-NC	110 VAC		A22W-2M□-T1-01
				220 VAC		A22W-2M□-T2-01
			SPST-NO + SPST-NC	110 VAC		A22W-2M□-T1-11
				220 VAC		A22W-2M□-T2-11
		Spring return 	DPST-NO	110 VAC		A22W-2M□-T1-20
				220 VAC		A22W-2M□-T2-20
			DPST-NC	110 VAC		A22W-2M□-T1-02
				220 VAC		A22W-2M□-T2-02
			SPST-NO	110 VAC		A22W-2A□-T1-10
				220 VAC		A22W-2A□-T2-10
	3 positions	Maintained 	SPST-NC	110 VAC		A22W-2A□-T1-01
				220 VAC		A22W-2A□-T2-01
			SPST-NO + SPST-NC	110 VAC		A22W-2A□-T1-11
				220 VAC		A22W-2A□-T2-11
			DPST-NO	110 VAC		A22W-2A□-T1-20
				220 VAC		A22W-2A□-T2-20
		Spring return 	DPST-NC	110 VAC		A22W-2A□-T1-02
				220 VAC		A22W-2A□-T2-02
			SPST-NO + SPST-NC	110 VAC		A22W-3M□-T1-11
				220 VAC		A22W-3M□-T2-11
			DPST-NO	110 VAC		A22W-3M□-T1-20
				220 VAC		A22W-3M□-T2-20
			DPST-NC	110 VAC		A22W-3M□-T1-02
				220 VAC		A22W-3M□-T2-02
		Spring return 	SPST-NO + SPST-NC	110 VAC		A22W-3A□-T1-11
				220 VAC		A22W-3A□-T2-11
			DPST-NO	110 VAC		A22W-3A□-T1-20
				220 VAC		A22W-3A□-T2-20
			DPST-NC	110 VAC		A22W-3A□-T1-02
				220 VAC		A22W-3A□-T2-02

## Dimensions

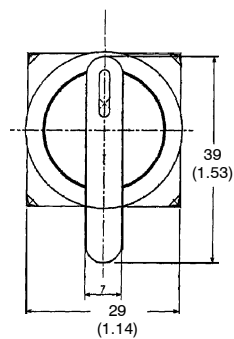
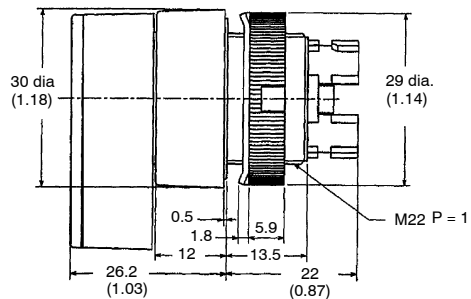
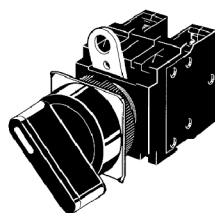
Unit: mm (inch)

### ■ KNOB-TYPE SELECTOR SWITCH (ILLUMINATED/NON-ILLUMINATED)

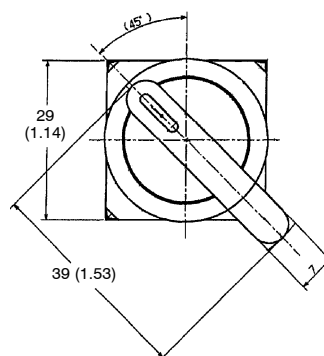
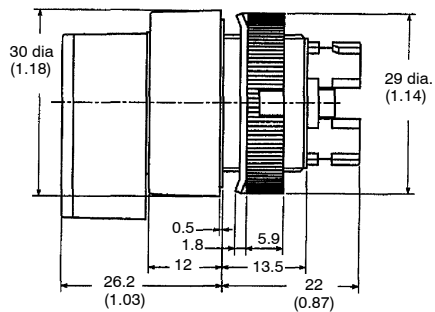
**A22S-S**



**A22S-C3**

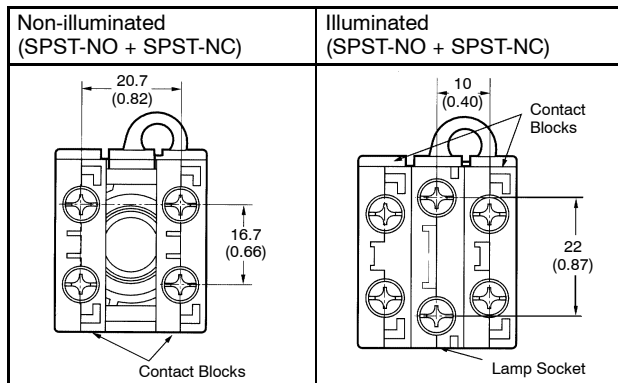


**A22S-C2**

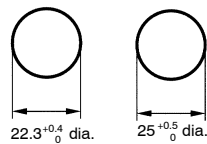


## ■ TERMINAL ARRANGEMENT

### Terminal Arrangement (Bottom View)



## ■ PANEL CUTOUT DIMENSIONS



Note: When applying a coating such as paint to a panel, the dimensions should be those after the application of the coating.  
A lock fitting is provided as a standard item.

## ■ CONTACT CONFIGURATION

### 2-Position Type

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

### 3-Position Type

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

Note: For additional specifications and information refer to the *Common to all assemblies* section at the end of this publication.

## ■ TERMINAL CONNECTION

Type	Connection diagram
Non-illuminated	<p>Bottom view</p>
Illuminated without transformer	<p>Bottom view</p>
Illuminated with transformer	<p>Bottom view</p>

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



**NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.**

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