

Knob-type Selector Switch

A22S/W

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

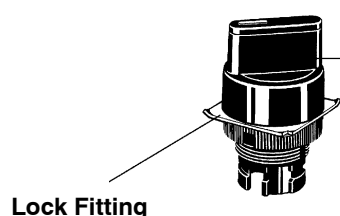
- Illuminated and Non-illuminated models
- Locking lever ensures easy mounting and removal of switch unit
- Increase wiring efficiency and decrease mounting depth with three-row mounting of switch unit contact blocks
- Finger-safe contact blocks
- Use optional 25-mm dia. ring to install in 25-mm dia.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

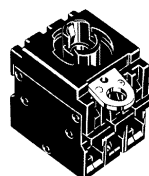
Applicable Colors

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

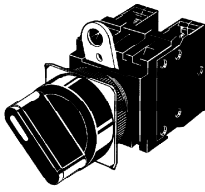
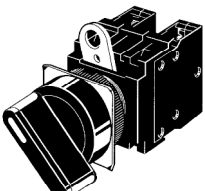
*1) Operational voltage: 95 to 115 VAC
*2) Operational voltage: 190 to 230 VAC

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.

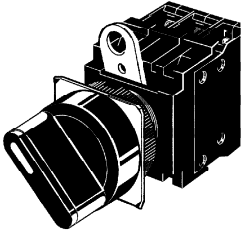
(Actual color of yellow selector switches more closely resembles amber than true yellow.)

■ KNOB-TYPE SELECTOR SWITCH

Non-illuminated

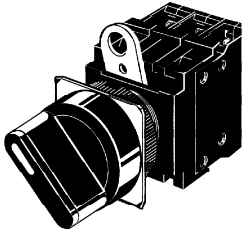
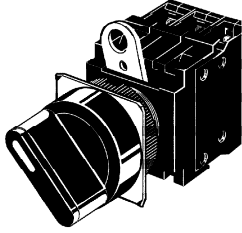
Appearance	Positions	Operating method	Contacts	Operator color	Part number
Knob-type selector switch 	2 positions	Maintained 	SPST-NO	Black	A22S-2M-10
			SPST-NC		A22S-2M-01
			SPST-NO + SPST-NC		A22S-2M-11
			DPST-NO		A22S-2M-20
			DPST-NC		A22S-2M-02
		Spring return 	SPST-NO		A22S-2A-10
			SPST-NC	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

Illuminated (Without Transformer)

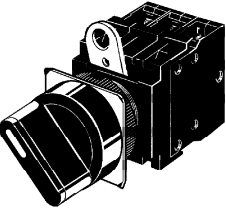
Appearance	Positions	Operating method	Contacts	Rated voltage	Operator color	Part number
Knob-type selector switch LED lighting (without transformer) 	2 positions	Maintained 	SPST-NO	6 VDC	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) A (blue)	A22W-2M□-6D-10
				6 VAC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

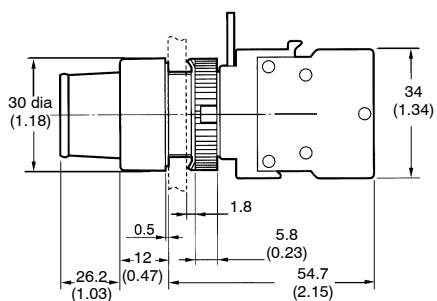
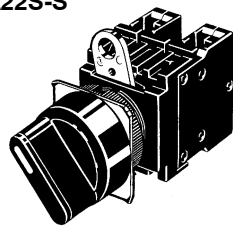
Appearance	Positions	Operating method	Contacts	Rated voltage	Operator color	Part number
Knob-type selector switch LED lighting (with transformer) 	2 positions	Maintained 	SPST-NO	110 VAC	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) A (blue)	A22W-2M□-T1-10
				220 VAC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

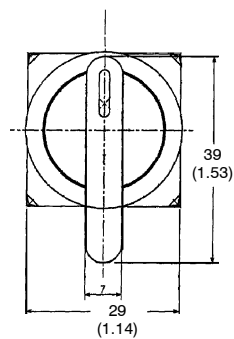
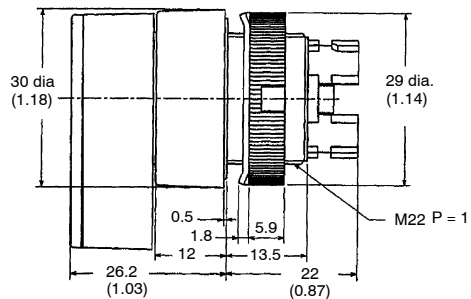
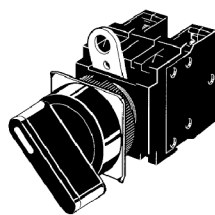
Unit: mm (inch)

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

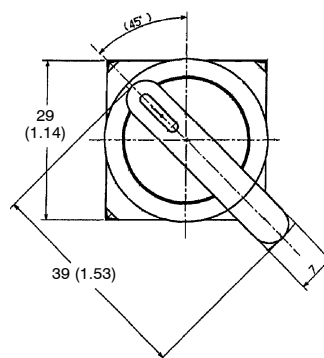
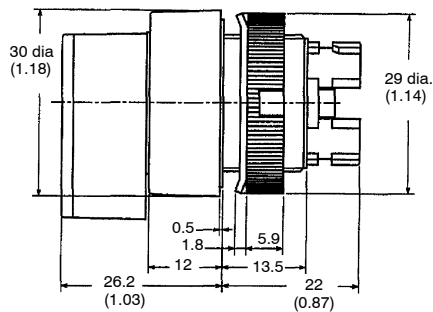
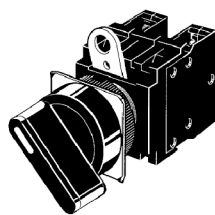
A22S-S



A22S-C3

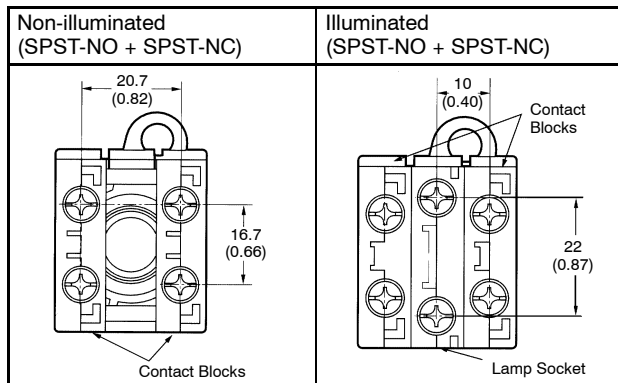


A22S-C2

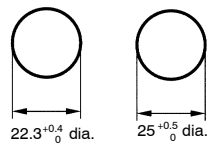


■ TERMINAL ARRANGEMENT

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	Bottom view
Illuminated without transformer	Bottom view
Illuminated with transformer	Bottom view

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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