Pushbutton Switch (Cylindrical 22/25-dia.)

A22

## Install in 22-dia. or 25-dia. Panel Cutout (When Using a Ring)

- 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/ Indicators and Safety Precautions on page 21.

#### List of Models

#### Non-lighted Pushbutton Switches

	Appearance				
Round	Half guard		A22-H		
Squara	Projected		A22-C		
Square	Guard		A22-D		
Mushroom	Mushroom Small (30 dia.)		A22-S		

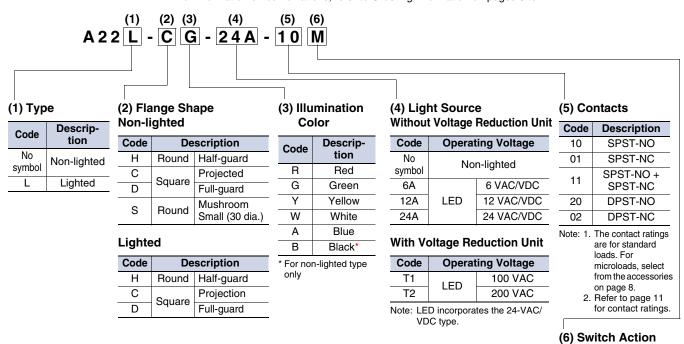
A22L-D	A22-S

Lighted Pushbutton Switches					
	Appeara	nce	Model number		
Round	Half guard		A22L-H		
Square	Projected		A22L-C		
Square	Guard		A22L-D		

#### OMRON

#### **Model Number Structure**

#### **Model Number Legend** ..... Shipped as a set which includes the Pushbutton, Lamp (lighted type only), and Switch. For information on combinations, refer to *Ordering Information* on pages 3 to 4.



# Code Description M Momentary A Alternate Note: 1. Momentary operation: Self-resetting

2. Alternate operation: Self-holding The Socket Unit holds and the Operation Unit resets.

Specifications: See pages 11 to 12.

Precautions for correct use: Refer to page 21.

Dimensions: Refer to page14.

Accessories and tools: See pages 8 to 10.

**Completely Assembled**....... Shipped as a set which includes the Pushbutton, LED (lighted type only), and Switch. Non-lighted (Round Type)

		Operation	Momentary opera- tion (self-resetting)	Alternate operation (self-holding)	Illumination color
Appeara	ance	Output	Set	Set	
Round/Half-guard type		SPST-NO	A22-H10M	A22-H10A	
A22-H		SPST-NC	A22-H□-01M	A22-H□-01A	
		SPST-NO + SPST-NC	A22-H□-11M	A22-H□-11A	
		SPST-NO + SPST-NO	A22-H20M	A22-H□-20A	R (red) Y (vellow)
		SPST-NC + SPST-NC	A22-H□-02M	A22-H□-02A	G (green)
Round/Small-size		SPST-NO	A22-S		W (white)
Mushroom type (30-dia. head)	Mushroom type	SPST-NC	A22-S□-01M		A (blue) B (black)
A22-S		SPST-NO + SPST-NC	A22-S□-11M		- ()
		SPST-NO + SPST-NO	A22-S□-20M		
		SPST-NC + SPST-NC	A22-S□-02M		

Note: The contact ratings are for standard loads.

#### Non-lighted (Square Type)

	Operation	Momentary opera- tion (self-resetting)	Alternate operation (self-holding)	Illumination color
Appearance	Output	Set	Set	
Square/Projection type	SPST-NO	A22-C -10M	A22-C□-10A	
A22-C	SPST-NC	A22-C□-01M	A22-C□-01A	
	SPST-NO + SPST-NC	A22-C -11M	A22-C□-11A	
سفيل المراجع ال	SPST-NO + SPST-NO	A22-C -20M	A22-C□-20A	R (red) Y (yellow)
	SPST-NC + SPST-NC	A22-C□-02M	A22-C□-02A	G (green)
Square/Guard type	SPST-NO	A22-D -10M	A22-D10A	W (white)
A22-D	SPST-NC	A22-D01M	A22-D01A	A (blue) B (black)
	SPST-NO + SPST-NC	A22-D -11M	A22-D11A	
	SPST-NO + SPST-NO	A22-D20M	A22-D20A	
	SPST-NC + SPST-NC	A22-D□-02M	A22-D02A	

Note: The contact ratings are for standard loads.

#### Lighted (Round Type)

		Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination		
Appearance	Output	Lighting Operating voltage		Set	Set	color
Round/Half-guard type LED lighting	SPST-NO			A22L-H□-24A-10M	A22L-H□-24A-10A	
(without Voltage Reduction Unit) A22L-H	SPST-NC			A22L-H□-24A-01M	A22L-H□-24A-01A	
	SPST-NO + SPST-NC		24 VAC/VDC	A22L-H□-24A-11M	A22L-H□-24A-11A	
	SPST-NO + SPST-NO		-	A22L-H□-24A-20M	A22L-H□-24A-20A	
	SPST-NC + SPST-NC			A22L-H□-24A-02M	A22L-H□-24A-02A	R (red) Y (yellow)
Round/Half-guard type	SPST-NO	LED	100 VAC	A22L-H -T1-10M	A22L-H -T1-10A	G (green)
LED voltage-reduction lighting			200 VAC	A22L-H -T2-10M	A22L-H□-T2-10A	W (white) A (blue)
(with Voltage Reduction Unit)	SPST-NC		100 VAC	A22L-H□-T1-01M	A22L-H□-T1-01A	
A22L-H			200 VAC	A22L-H -T2-01M	A22L-H -T2-01A	
	SPST-NO + SPST-NC		100 VAC	A22L-H□-T1-11M	A22L-H -T1-11A	
			200 VAC	A22L-H□-T2-11M	A22L-H□-T2-11A	
	SPST-NO + SPST-NO		100 VAC	A22L-H□-T1-20M	A22L-H□-T1-20A	-
JER MAR			200 VAC	A22L-H -T2-20M	A22L-HT2-20A	
	SPST-NC + SPST-NC		100 VAC	A22L-H -T1-02M	A22L-H -T1-02A	
			200 VAC	A22L-H□-T2-02M	A22L-HT2-02A	

Note: The contact ratings are for standard loads.

Individual models: Refer to pages 5 to 7. (The Pushbutton, Lamp, and Switch can be ordered separately.) Specifications and dimensions: See pages 11 to 14.
 Accessories and tools: See pages 8 to 10.

**Completely Assembled** ....... Shipped as a set which includes the Pushbutton, LED (lighted type only), and Switch. Lighted (Square Type)

			Operation	Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination color
Appearance	Output	Lighting	Operating voltage	Set	Set	COIOI
Square/Projection type LED lighting	SPST-NO			A22L-C□-24A-10M	A22L-C□-24A-10A	
(without Voltage Reduction Unit) A22L-C	SPST-NC			A22L-C□-24A-01M	A22L-C□-24A-01A	
	SPST-NO + SPST-NC		24 VAC/VDC	A22L-C□-24A-11M	A22L-C□-24A-11A	
	SPST-NO + SPST-NO			A22L-C□-24A-20M	A22L-C□-24A-20A	
	SPST-NC + SPST-NC			A22L-C□-24A-02M	A22L-C□-24A-02A	R (red) Y (yellow)
Square/Projection type		LED	100 VAC	A22L-C -T1-10M	A22L-C -T1-10A	G (green)
LED voltage-reduction lighting	SPST-NO		200 VAC	A22L-C -T2-10M	A22L-C -T2-10A	W (white)
(with Voltage Reduction Unit) A22L-C	SPST-NC		100 VAC	A22L-C□-T1-01M	A22L-C□-T1-01A	A (blue)
ALLE O	3F31-NC		200 VAC	A22L-C -T2-01M	A22L-C -T2-01A	
A CONTRACTOR OF THE OWNER OF THE	SPST-NO +		100 VAC	A22L-C□-T1-11M	A22L-C□-T1-11A	
	SPST-NC		200 VAC	A22L-C□-T2-11M	A22L-C□-T2-11A	
	SPST-NO +		100 VAC	A22L-C -T1-20M	A22L-C□-T1-20A	
	SPST-NO		200 VAC	A22L-C□-T2-20M	A22L-C□-T2-20A	
	SPST-NC +	1	100 VAC	A22L-C□-T1-02M	A22L-C□-T1-02A	
	SPST-NC		200 VAC	A22L-C□-T2-02M	A22L-C□-T2-02A	

Note: The contact ratings are for standard loads.

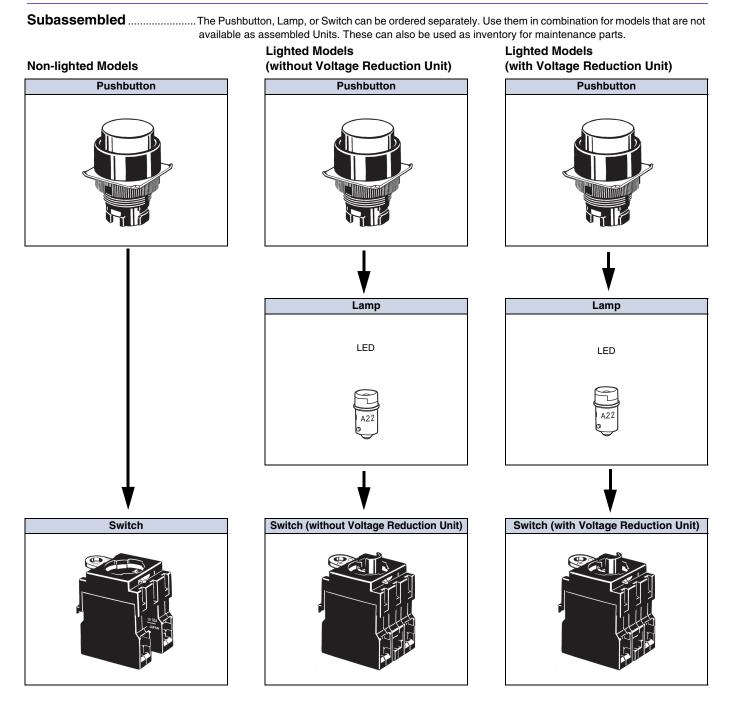
			Operation	Momentary operation (self-resetting)	Alternate operation (self-holding)	Illumination color	
Appearance	Output	Lighting	Operating voltage	Set	Set	COIOI	
Square/Full-guard type LED lighting (without Voltage Reduction Unit)	SPST-NO			A22L-D□-24A-10M	A22L-D-24A-10A		
A22L-D	SPST-NC			A22L-D□-24A-01M	A22L-D□-24A-01A		
	SPST-NO + SPST-NC	1	24 VAC/VDC	A22L-D□-24A-11M	A22L-D24A-11A		
	SPST-NO + SPST-NO			A22L-D□-24A-20M	A22L-D24A-20A	1	
	SPST-NC + SPST-NC		LED		A22L-D□-24A-02M	A22L-D□-24A-02A	R (red) Y (yellow) G (green)
Square/Full-guard type	SPST-NO		100 VAC	A22L-D -T1-10M	A22L-D -T1-10A	W (white)	
LED voltage-reduction lighting	3-31-110		200 VAC	A22L-D -T2-10M	A22L-D -T2-10A	A (blue)	
(with Voltage Reduction Unit) A22L-D	SPST-NC		100 VAC	A22L-D -T1-01M	A22L-D -T1-01A		
	3F31-NC		200 VAC	A22L-D -T2-01M	A22L-D -T2-01A		
N STA	SPST-NO +		100 VAC	A22L-D -T1-11M	A22L-D -T1-11A		
	SPST-NC		200 VAC	A22L-D -T2-11M	A22L-D -T2-11A		
	SPST-NO +		100 VAC	A22L-D -T1-20M	A22L-D -T1-20A		
	SPST-NO		200 VAC	A22L-DT2-20M	A22L-DT2-20A	1	
*	SPST-NC +	1	100 VAC	A22L-D -T1-02M	A22L-D -T1-02A	1	
	SPST-NC		200 VAC	A22L-D□-T2-02M	A22L-DT2-02A		

Note: The contact ratings are for standard loads.

Individual models: Refer to pages 5 to 7.

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

- Specifications and dimensions: See pages 11 to 14.
- Accessories and tools: See pages 8 to 10.



Ordering set combinations: Refer to pages 3 to 4.

Specifications and dimensions: See pages 11 to 14.Accessories and tools: See pages 8 to 10.

available as assembled Units. These can also be used as inventory for maintenance parts.

## Pushbutton Non-lighted

Sealing		IP65 oil-resistant models						
Appearance	Half-guard type	Round/Mushroom type (30-dia. head)	Square/Projection type	Square/Full-guard type				
Color	Model	Model	Model	Model				
Red	A22-HR	A22-SR	A22-CR	A22-DR				
Green	A22-HG	A22-SG	A22-CG	A22-DG				
Yellow	A22-HY	A22-SY	A22-CY	A22-DY				
White	A22-HW	A22-SW	A22-CW	A22-DW				
Blue	A22-HA	A22-SA	A22-CA	A22-DA				
Black	A22-HB	A22-SB	A22-CB	A22-DB				

#### Lighted

Sealing		IP65					
Appearance	Half-guard type	Square/Projection type	Square/Full-guard type				
Color	Model	Model	Model				
Red	A22L-HR	A22L-CR	A22L-DR				
Green	A22L-HG	A22L-CG	A22L-DG				
Yellow	A22L-HY	A22L-CY	A22L-DY				
White	A22L-HW	A22L-CW	A22L-DW				
Blue	A22L-HA	A22L-CA	A22L-DA				

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications and dimensions: See pages 11 to 14.

■ Accessories and tools: See pages 8 to 10.

Lamp

available as assembled Units. These can also be used as inventory for maintenance parts.

#### LED Lamp

		Operating voltage	6 VAC/VDC	12 VAC/VDC	24 VAC/VDC
Appearance	e	LED Color	Model	Model	Model
0	40	Red	A22-6AR	A22-12AR	A22-24AR
A22	AC and	Green	A22-6AG	A22-12AG	A22-24AG
A22	DC	Yellow *2	A22-6AY	A22-12AY	A22-24AY
	20	Blue	A22-6AA	A22-12AA	A22-24AA

\*1. For voltage-reduction lighting, use the A22-24A□. Only 24-V LED lamps can be used.
\*2. Used when the Pushbutton color is yellow or white.

#### Switch (Standard Load) **No Voltage Reduction Unit**

Classification No		Non-I	ighted	Lighted	
Appearance					
	Operation	Momentary	Alternate	Momentary	Alternate
Contacts		Model	Model	Model	Model
	SPST-NO	A22-10M	A22-10A	A22L-10M	A22L-10A
Observational	SPST-NC	A22-01M	A22-01A	A22L-01M	A22L-01A
Standard load	SPST-NO + SPST-NC	A22-11M	A22-11A	A22L-11M	A22L-11A
ioau	SPST-NO + SPST-NO	A22-20M	A22-20A	A22L-20M	A22L-20A
	SPST-NC + SPST-NC	A22-02M	A22-02A	A22L-02M	A22L-02A

#### **Voltage Reduction Unit**

	Classification	110 VAC	, Lighted	220 VAC, Lighted		
Appearance						
	Operation	Momentary	Alternate	Momentary	Alternate	
Contacts		Model	Model	Model	Model	
	SPST-NO	A22L-10M-T1	A22L-10A-T1	A22L-10M-T2	A22L-10A-T2	
Ohan dand	SPST-NC	A22L-01M-T1	A22L-01A-T1	A22L-01M-T2	A22L-01A-T2	
Standard load	SPST-NO + SPST-NC	A22L-11M-T1	A22L-11A-T1	A22L-11M-T2	A22L-11A-T2	
ioau	SPST-NO + SPST-NO	A22L-20M-T1	A22L-20A-T1	A22L-20M-T2	A22L-20A-T2	
	SPST-NC + SPST-NC	A22L-02M-T1	A22L-02A-T1	A22L-02M-T2	A22L-02A-T2	

\*1. A DPST-NO model is shown here as an example.
 \*2. For a model with a Voltage Reduction Unit, use the A22-24A□. Only 24-V LED lamps can be used.

Ordering set combinations: Refer to pages 3 to 4.

■ Specifications and dimensions: See pages 11 to 14. ■ Accessories and tools: See pages 8 to 10.

#### Accessories (Order Separately) Accessories

lt	em	Appearance	Classifi	cation		Model	Remarks	
			SPST-NO	Standard		A22-10	_	
		States		Microloa		A22-10S		
		E Contraction of the second se	SPST-NC Standard lo Microload			A22-01 A22-01S	Order Switch Blocks to add an SPST-NO (A22-10) or SPST-NC (A22-01) Switch	
<b>•</b> • • • •				Standard		A22-015 A22-20	Block (for standard loads) or to replace a	
Switch Blo	cks		DPST-NO	Microloa		A22-20S	<ul> <li>Switch Block.</li> <li>An A22Z-3003 Three-throw Spacer is re-</li> </ul>	
			DPST-NC	Standard	lload	A22-02	quired to mount three Non-lighted Switch	
			DESTINC	Microload	-	A22-02S	Únits.	
			SPST-NO + SPST-NC	Standard		A22-11	_	
			Direct lighting	Microload	a	A22-11S A22-TN		
		ALS -	Direct lighting					
Lamp Soc	kets		Voltage-reduction	110	VAC	A22-T1	Used when changing the lighting method.	
			lighting	220	VAC	A22-T2	(LED only)	
Mounting I	atches		For momentary mod	lels		A22-3200	Provided as standard. Order Mounting Latches only when mounting Switch Blocks	
Mounting		Ż	For alternate models	S		A22-3210	or Lamp Sockets that are purchased individually.	
		7	With Snap-in Legen	d Plate	White	A22Z-3321		
	Standard		(Without text)		Red	A22Z-3322	Snap-in Legend Plate is acrylic.	
Legend	size		Without Snap-in Leo	and Plata	Black	A22Z-3323 A22Z-3320	_	
Plate					White	A22Z-3320		
Frames			With Snap-in Legen	d Plate	Red	A22Z-3332	_	
	Large size	$\sim$	(Without text)		Black	A22Z-3333	<ul> <li>Snap-in Legend Plate is acrylic.</li> </ul>	
			Without Snap-in Leo	gend Plate	1	A22Z-3330		
Lock Ring	1		Round		A22Z-3360	This Lock Ring is used when a more secure lock feature is required.		
Motallic Br	zel Binge		For flat or projection models			A22Z-3580	Replace with the standard model. Material: Copper alloy-Nickel chrome plating	
Metallic Bezel Rings			For full-guard models			A22Z-3582	Cannot be used with the M22.	
			For flat models			A22Z-3600F	Used to prevent dust or water from entering the Operation Unit (Pushbutton, etc.).	
Sealing Ca	aps		For projection models			A22Z-3600T	Color: opaque	
			For full-guard models			A22Z-3600G	Material: silicon	
			Red			A22Z-30TR A22Z-30TG	Used for changing the Pushbutton color of	
Color Cap	2		Green Yellow			A22Z-30TG	the (round) Pushbutton Switches. Cannot	
	5		White			A22Z-30TW	<ul> <li>be used, however, with Half-guard Switch- es.</li> </ul>	
			Blue			A22Z-30TA	es.	
Cape	For A22	$\bigcirc$	For projection, full-guard	l, or half-gua	or half-guard models A22Z-3490		Material: polycarbonate resin	
Caps	For M22		For round models			A22Z-3495		
Three-throw Spacer					A22Z-3003	Used when mounting three Nonlighted Switches. Cannot be used with Alternate action type, knob-type Selector, and Key- type Selector because of the structure. Mushroom-type Switch provides an A22Z- 3003, three-throw spacer. (See page 26.)		
Hole Plug		Round		A22Z-3530	Can be plugged into pre-cut panel holes for future expansion. The color is black. Color: Black			
			One holo			A22Z-B101		
		-	One hole			A22Z-B201	For those designed A22Z-B1□, DPST-NO	
Control Boxes			One hole, yellow bo	v		A22Z-B101Y	or DPST-NC Switches cannot be used.	
			One noie, yellow bo	^		A22Z-B201Y	A22Z-B2□ Control Boxes, A22-series alter nate operation models, and DPST-NO,	
(Enclosure	es)		Two holes			A22Z-B102	DPST-NC, and SPST-NO + SPST-NC con	
						A22Z-B202	tacts cannot be used.	
			Three holes			A22Z-B103	Material: Polycarbonate resin	
						A22Z-B203		
Connector	S		Applicable cable	7 to 9 dia	ι.	A22Z-3500-1	Plastic connector used to extend a cable from the Switch Box. (See 9 to 11 dia. A22Z	
Connectors			diameter (mm)	9 to 11 d	• _	A22Z-3500-2	3500-2 page 25.)	

Item	Appearance	Classification	Model	Remarks
25-dia. Ring	0		A22Z-R25	Use when mounting to a panel with a 25-dia. hole. For details, refer to page 16. Since this is not at- tached to the main body, order separately.
30-dia. Resin Attach- ment		Round	A22Z-A30	Use when mounting to a panel with a 30-dia. hole. For details, refer to page 18.
Lock Plate			A22Z-3380	Use to fix the lever on the Switch.
Simple Protective Cover			A22Z-3700	Prevents foreign matter entering into the Switch from the back of the panel.

■ Specifications: See pages 11 to 12.

■ Dimensions: See page 14.

■ Precautions for correct use: See page 21.

■ Accessories and tools: See pages 8 to 10.

	Item	Appearance		Classification		Model	Remarks	
				Black		A22Z-3443B		
			Without text	Red		A22Z-3443R	7	
			without text	Wh	White			
				Transp	parent	A22Z-3443C		
		-		White text on red	О	A22Z-3443R-2		
				background	STOP	A22Z-3443R-4	Attached to the Stan-	
	Standard					A22Z-3443B-1	dard-size Legend Plate	
	size				START	A22Z-3443B-3	Frame. (See page 26.)	
		$\leq //$	With text		ON	A22Z-3443B-5	Material: Acrylic	
Snop in			WITH LEXT	White text on	OFF	A22Z-3443B-6		
Snap-in Legend				black background	UP	A22Z-3443B-7	-	
Plates					DOWN	A22Z-3443B-8		
i lates					POWER ON	A22Z-3443B-9		
					OFF-ON	A22Z-3443B-10		
			Without text	Black		A22Z-3453B	Used as an Emergency Stop Switch Legend Plate. (See page 26.) Material: Acrylic	
	Large size			Red		A22Z-3453R		
				White		A22Z-3453W		
				Transparent		A22Z-3453C		
	For Emer- gency Stop	Sec. 10		60-dia. round plate with black letters on a yellow background		A22Z-3466-1	EMERGENCY STOP is engraved on the plate. Used	
	Switch	STOP	yellow back- ground	90-dia. round plate on a yellow backgr		A22Z-3476-1	as an Emergency Stop Switch Legend Plate	
			No print (Rou	nd)		A22Z-3460		
			Character			A22Z-3460-1	After printing on a film, af-	
Characte	yr Filme		print	Ċ	)	A22Z-3460-2	fix to the indicator plate of the Lighted Pushbutton	
Undracie	1 1 11115	1 7 5	(Round)	STA	RT	A22Z-3460-3	Switch. (The back is	
			(nouna)	STO	OP	A22Z-3460-4	coated with adhesive.)	
		7	No print (Squ	are)		A22Z-3480		

#### Tools

Item	Appearance	Classification	Model	Remarks
Lamp Extractor	<b>Star</b>		A22Z-3901	Rubber tool used to easily replace Lamps
Tightening Wrench			A22Z-3905	Used to tighten mounting nuts from the back of the panel and to replace the cap of the Lighted Emergency Switch.
Cap Tightening Tool	e		A22Z-3908	Used for replacing the cap of the Half- guard Pushbutton Switch.
Cap Puller			A3PJ-5080	Used for removing the cap from the Pushbutton of the Square Lighted Pushbutton Switch.

Specifications: See pages 11 to 12.Dimensions: See page 14.

- Precautions for correct use: See page 21.
- Accessories and tools: See pages 8 to 10.

#### **Specifications**

#### **Approved Standard Ratings** UL, cUL (File No. E41515)

6 A at 220 VAC, 10 A at 110 VAC

Note: Only Switch Blocks and Lamp Sockets are recognized by UL. Refer to Page 8 for the model numbers.

#### EN60947-5-1 (Low Voltage Directive)

3 A at 220 VAC

#### CCC (GB14048.5)

3 A at 240 VAC, 1.5 A at 24 VDC

#### Ratings

#### **Contacts (Standard Load)**

Contacts	Rated	Rated current (A)				
(Standard Load)	voltage	Induc- tive load	Resis- tive load	Induc- tive load	Resis- tive load	
	24 VAC	10	10			
	110 VAC	5	10			
	220 VAC	3	6			
	380 VAC	2	3			
10A	440 VAC	1	2			
	24 VDC			1.5	10	
	110 VDC			0.5	2	
	220 VDC			0.2	0.6	
	380 VDC			0.1	0.2	

Note: 1. The above ratings were obtained by conducting tests under the following conditions. (1) Ambient temperature: 20±2°C

(2) Ambient humidity: 65±5% RH
(3) Operating frequency: 20 operations/minute
2. Minimum applicable load: 10 mA at 5 VDC

#### **Contacts (Microload)**

Rated applicable load	50 mA at 24 VDC (Resistive load)
Minimum applicable load	1 mA at 5 VDC

#### **LED Indicators**

Rated voltage	Rated current	Operating voltage
6 VAC/VDC		6 VAC/VDC±5%
12 VAC/VDC	8 mA	12 VAC/VDC±5%
24 VAC/VDC		24 VAC/VDC±5%

#### **Voltage-reduction Lighting**

Rated voltage	Rated current	Operating voltage	Applicable lamp (BA9S/Base: 13)
110 VAC	8 mA	100 VAC (95 to 115 V)	LED Lamp
220 VAC	οmA	200 VAC (190 to 230 V)	(A22-24A_)

#### Specifications

#### **Characteristics**

	Туре	Pushbutto	n Switches	Knob-type Sele	ector Switches	Key-type Selector Switch	Indicator	
Item		Non-lighted models: A22-H A22-S A22-C A22-D	Lighted models: A22L-H A22L-C A22L-D	Non-lighted model: A22S	Lighted model: A22W	Non-lighted model: A22K	M22	
llowable	Mechanical	Momentary operation: 60 operations/minute max.			eset: 30 operations/m reset: 30 operations/			
requency	Electrical		30	0 operations/minute max				
sulation r	esistance			100 MΩ min. (a	at 500 VDC)			
ontact	Standard load			100 mΩ max. (	initial value)			
sistance	Microload			100 mΩ max. (	initial value)			
ielectric	Between termi- nals of same polarity			2,500VAC, 50/6	0Hz for 1min			
trength	Between each terminal and ground	2,500VAC, 50/60Hz for 1min						
ibration esistance	Malfunction *1		Malf	unction *2: 10 to 55 Hz,	1.5-mm double amp	itude		
hock	Destruction	1,000 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max	
esistance	Malfunction *1	1,000 m/s <sup>2</sup> max.	600 m/s <sup>2</sup> max.	1,000 m/s <sup>2</sup> max.	600 m/s <sup>2</sup> max.	1000 m/s <sup>2</sup> max.	600 m/s <sup>2</sup> max.	
ourability	Mechanical	Momentary operation: 5,000,000 operations min.		500,000 operations min.	100,000 operations min.	500,000 operations min.		
urability	Electrical	500,000 ope	erations min.	500,000 operations min.	100,000 operations min.	500,000 operations min.		
mbient op		–20°C to 70°C	–20°C to 55°C	–20°C to 70°C	–20°C to 55°C	–20°C to 70°C	–20°C to 55°C	
mbient op umidity	erating	35% to 85% RH						
mbient ste emperature		-40°C to 70°C						
Degree of protection *3		IP65 (oil-resistant)	IP65	IP65 (oil-resistant)	IP65	IP65 (oil-resistant)	IP65	
lectric sho lass	ock protection	Class II						
TI tracking cl	naracteristic)	175						
egree of c	ontamination			3 (IEC94	7-5-1)			

\*1. Malfunction within 1 ms.
\*2. With no icing or condensation.
\*3. Degree of protection from the front of the panel.

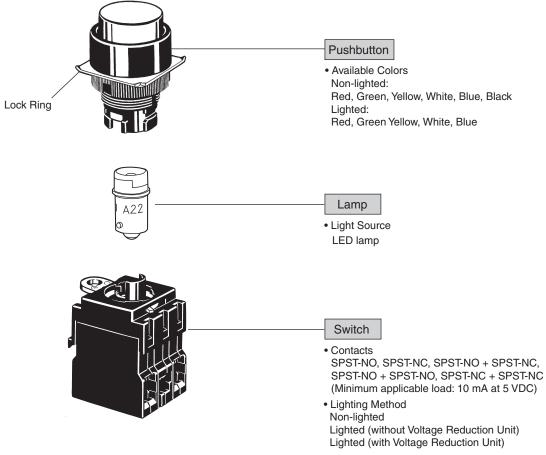
#### **Operating Characteristics (for SPST-NO/SPST-NC)**

Туре	Pushbutton Switches	Knob-ty	pe Selector	Key-type Selector Switch	
	Lighted Nonlighted Pushbutton Switches	Manual reset	Automatic reset	Manual reset	Automatic reset
Item	A22-H A22-C A22-D A22-S A22L-H A22L-C A22L-D	-	A22S A22W	L	A22K
Total travel force (TTF) max.	29.4 N	0.34 N•m*	0.25 N·m for two notches * 0.34 N·m for three notches *	0.34 N⋅m*	0.25 N·m for two notches * 0.34 N·m for three notches *
Total travel (TT)	5.5 mm max.	Approx. 90° for two notches (Approx. $45^{\circ}$ for three notches)			for two notches for three notches)
Resetting force (RF) min.		0.34 N·m max.*		0.34 N·m max.*	

\* Rotation torque for Knob-type Selector and Key-type Selector Switches.

#### Nomenclature

#### **Model Structure**



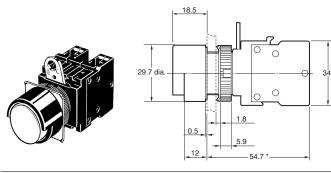
The above illustration shows a lighted model.

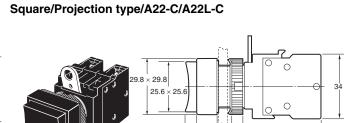
(Unit: mm)

#### Dimensions

Lighted/Non-lighted Pushbutton Switches (The following illustrations are for momentary operation.)

#### Half-guard Type/A22-H/A22L-H





0.5

.12

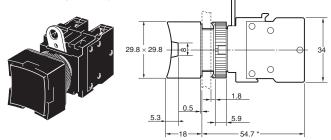
18

1.8

5.9

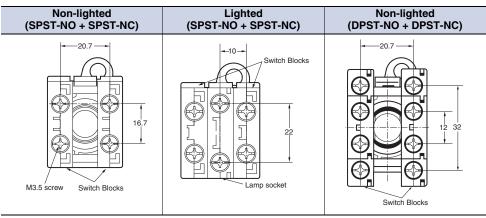
54 7

#### Square/Full-guard Type/A22-D/A22L-D

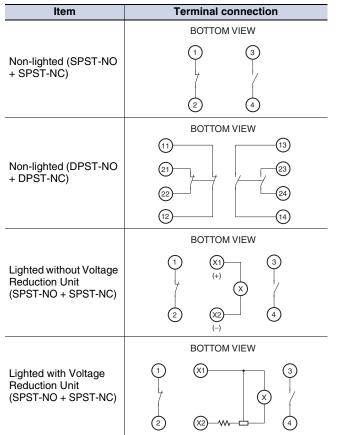


Note: Lighted models have the same dimensions as shown above, whether they are with or without Voltage Reduction Units. \* Alternate operation models are 9.3 mm longer.

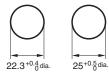
#### **Terminal Arrangement (Bottom View)**



#### **Terminal Connection**



#### Panel Cutouts



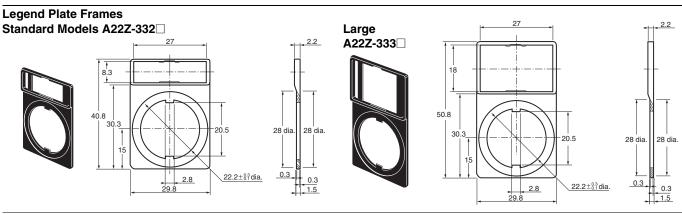
#### Lock ring is provided as a standard item.

• When applying coating such as paint to the panel, the dimensions should be those after the application of coating.

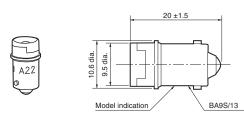
• Recommended panel thickness: 1 to 5 mm.

• Use an A22Z-R25 Ring when mounting to a panel with 25-mm holes.



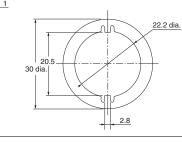


Lamp LED A22-6, 12, 24

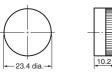


Lock Ring A22Z-3360



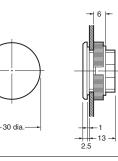


Color Cap A22Z-30T



Hole Plug (Round) A22Z-3530

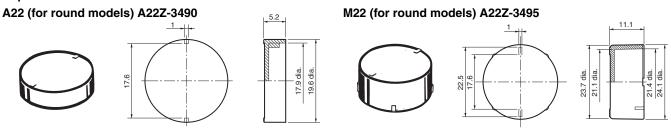
25-dia. Ring A22Z-R25



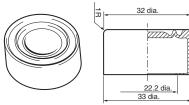
0.5

1.1

Caps



#### **Sealing Caps** For Flat Models A22Z-3600F





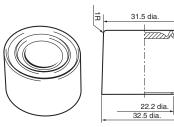
핐 (26 dia.) 궀 23 14.5

22.2 dia.

33 dia

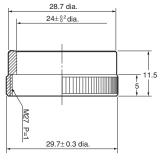
For projection models A22Z-3600T

For full-guard models A22Z-3600G

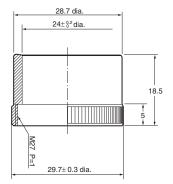


**Metallic Bezel Rings** For Flat/Projection Models A22Z-3580





For full-guard models A22Z-3582



17.9

#### For Large Models A22Z-3453



**Snap-in Legend Plates** 

For Standard Models A22Z-3443 ----

26.8

For Emergency-stop Models



90 dia. 0 2 Black letters (C) ш Yellow STOP 22.2 dia. t1

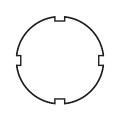
A22Z-3476-1 (90 dia.)

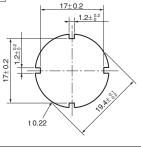


60 dia Yellow 22.2 dia. STIOP

26.8

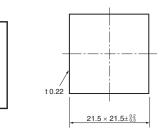
Character Film For Round Models A22Z-3460-



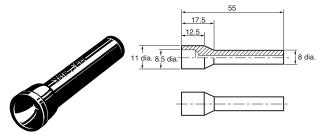




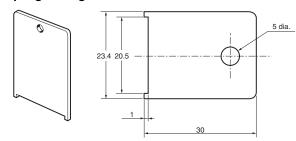
t1



#### Lamp Extractor A22Z-3901

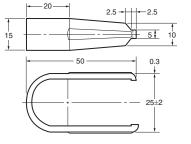


Cap Tightening Tool A22Z-3908

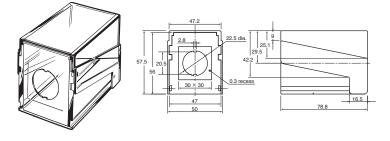


Cap Puller A3PJ-5080

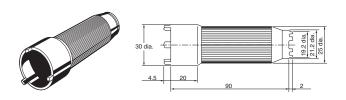




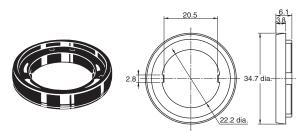
#### Simple Protective Cover A22Z-3700



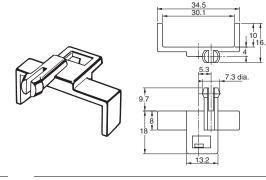
Tightening Wrench A22Z-3905



30-dia. Resin Attachment A22Z-A30



Lock Plate A22Z-3380

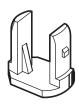


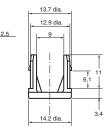
#### Three-throw Spacer A22Z-3003

10.8

6

Ü

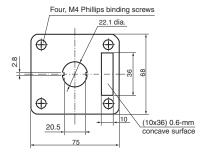


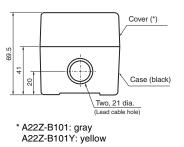


#### Control Box (Enclosure) A22Z-B10



#### A22Z-B101 (One Hole) A22Z-B101Y

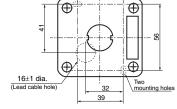




**Cable Port Hole (Top View)** 

**Cable Port Hole (Top View)** 

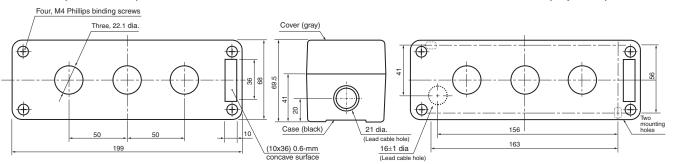
Cable Port Hole (Top View)



#### A22Z-B102 (Two Holes)

#### Four, M4 Phillips binding screws Two, 22.1 dia. Cover (gray) ¢ $\oplus$ Ð Œ 69.5 Case (black) **⊕**. 20 $\oplus$ $\oplus$ $\oplus$ mounting holes 21 dia. (Lead cable hole) (10x36) 0.6-mm concave surface 94 50 10 101 16±1 dia / 137

#### A22Z-B103 (Three Holes)



#### (Panel Mounting Hole)



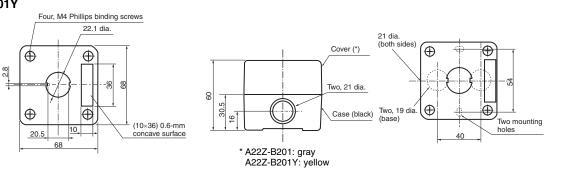
#### Control Box A22Z-B20

## A22Z-B201 (One Hole)

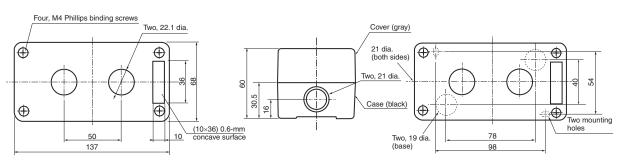




**Cable Port Hole (Top View)** 



#### A22Z-B202 (Two Holes)



#### A22Z-B203 (Three Holes)

#### **Cable Port Hole (Top View)** Four, M4 Phillips binding screws Three, 22.1 dia 21 dia. (both sides) Cover (gray) ⊕⊕ Ð Ð $\oplus$ 54 \$ 36 89 8 30.5 ÷ Ð Ð ⊕ ः⊕ Two mounting (10×36) 0.6-mm 50 50 10 Case (black) 138 concave surface 158 holes 199 Two, 19 dia. (base) Two, 21 dia.

#### (Panel Mounting Hole)



#### **Safety Precautions**

#### Refer to Safety Precautions for All Pushbutton Switches/Indicators.

#### 

Do not apply a voltage between the LED and the terminal that is greater than the rated voltage. If the LED is broken, the Operation Units may pop out. Always turn OFF the power and wait for 10 minutes before replacing the incandescent lamp. If the lamp is replaced immediately after the power is turned OFF, the remaining heat may cause burns.

#### **Precautions for Correct Use**

#### Mounting

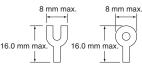
- Do not perform wiring with power supplied to the Switch. Do not touch the terminals or other charged parts of the Switch while power is being supplied. Doing so may result in electric shock.
- Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance. Do not tighten the mounting ring more than necessary using tools such as pointed-nose pliers. Doing so will damage the mounting ring.
- The tightening torque is 0.98 to 1.96 N·m.
- Recommended panel thickness: 1 to 5 mm.
- When mounting the caps after changing the LED or the caps,
- tighten the caps at a tightening torque of 0.49 tp 0.78 N·m. Wiring
- Terminal screws must be Phillips or slotted M3.5 screws with a square washer.
- The tightening torque is 1.08 to 1.27 N·m.
- Solid wires, stranded wires, and crimp terminals can be connected to the Switch.

#### Applicable Wire Size

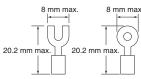
Stranded wire: 2 mm<sup>2</sup> max.

Solid wire: 1.6 dia. max.

Bare Crimp Terminals



Crimp Terminals with Insulating Sheath



• After wiring the Switch, maintain an appropriate clearance and creepage distance.

#### **Operating Environment**

- The IP65 model is designed with a degree of protection so that it will not sustain damage if it is subjected to water from any direction to the front of the panel.
- This switch is intended for indoor use only.
- Using the Switch outdoors will result in failure.

#### LED

- The LED current-limiting resistor is built-in, so internal resistance is not required.
- If commercially available LEDs are used, select the ones that meet the following conditions:
- Base: BA9S/13
- Overall length: 26 mm max.

Power consumption: 2.6 W max.

When DC-specific LEDs are used, wire the Switch so that the X1 terminal is positive.

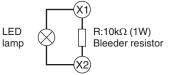
Mis-lighting of the LED

The LED lights with approx. 0.1 mA or less of micro-current. Take a countermeasure like adding a resistor to prevent mis-lighting in parallel to the LED.

The micro-current varies with the machine (leak current or stray capacity between cables, etc.). Select resistance value and allowable power consumption that meet the actual current.

#### (Circuit example)

In case of using 24 VAC/VDC, Direct lighting



#### Others

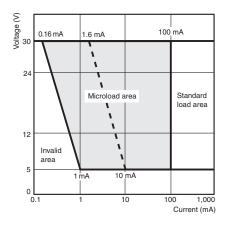
- If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after the coating.
- Do not subject the Switch to extreme shock or vibration. Doing so will cause malfunctions and damage to the Switch.

#### Using the Microload

 Insert a contact protection circuit, if necessary, to prevent the reduction of life expectancy due to extreme wear on the contacts caused by loads where inrush current occurs when the contact is opened and closed.

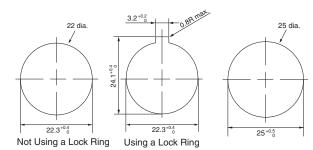
The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% ( $\lambda$  60) (conforming to JIS C5003).

The equation,  $\lambda$  60 = 0.5 x 10<sup>-6</sup>/operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.



#### Application Mounting to the Panel

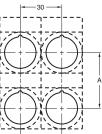
- Panel Hole Dimensions
- Panel hole dimensions are given below.
- Recommended panel thickness: 1 to 5 mm.



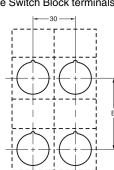
- For 25-dia. holes, always use 25-dia. Rings. (Since the cutout dimensions are large, IP65 cannot be guaranteed unless 25-dia. Rings are used.)
- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

#### Matrix Installation

1. The following panel hole dimensions apply when Switch Unit and the Standard-size Legend Plate Frame and Lock Ring are mounted, and lead wires are connected directly to the Switch Block.



- 2. The following panel hole dimensions
- apply when the Large-size Legend Plate Frame is mounted, and when crimp terminals are connected to the Switch Block terminals.



Pitches A and B between the centers of the mounting holes are as follows:

#### For 1. above:

Switch Blocks	Α
A22-10, A22-10S A22-01, A22-01S	45 mm min.
A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	55 mm min.

#### For 2. above:

Type of crimp terminal	Switch Blocks	В
Bare crimp terminals	A22-10, A22-10S A22-01, A22-01S	51 mm min.
	A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	61 mm min.
Crimp terminals with insulating sheath	A22-10, A22-10S A22-01, A22-01S	60 mm min.
	A22-20, A22-20S, A22-02 A22-02S, A22-11, A22-11S	70 mm min.

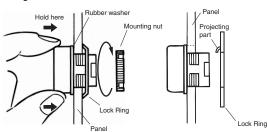
Note: 1. The above dimensions are the minimum dimensions for when the wires described under Applicable Wire Size on page 21 are used. If a different wires are used, the wiring dimensions may be different so determine an appropriate pitch before setup.

 With pushbuttons of external dimensions greater than 30 mm, set the pitch according to the dimensions. (When using matrix installation for the A22-M□, mount with a pitch of 40 mm instead of 30 mm in the diagram above.)

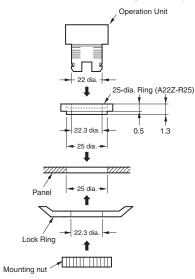
#### Mounting the Operation Unit on the Panel

- Insert the Operation Unit (Pushbutton, etc.) from the front surface of the panel, insert the Lock Ring and the mounting nut from the terminal side, then tighten the nut. Before tightening, check that the rubber washer is present between the Pushbutton Unit and the panel.
- When using a Legend Plate Frame, put one rubber washer each between the Legend Plate Frame and the panel and between the Operation Unit and the Legend Plate Frame. (One rubber washer will be provided when one Legend Plate Frame is ordered.)
- Align the Lock Ring with the groove in the casing, then insert the Lock Ring so that its edge is located on the panel side.

- Tighten the mounting nut at a torque of 0.98 to 1.96 N·m.
- When using a Lock Ring, replace with the supplied Lock Ring, insert the projecting part into the lock slot, and then tighten the mounting nut.

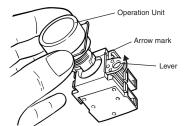


 When the panel cutout dimension is 25 dia., remove the supplied rubber washer and mount the 25-dia. Ring as shown below. (Since the A22Z-R25 is not attached to the main body, order separately.)



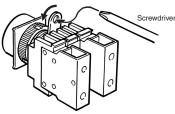
#### Mounting the Switch on the Pushbutton Unit

 Insert the Pushbutton Unit into the Switch Unit, aligning the arrow mark inscribed on the Case with the lever on the Switch Blocks, then move the lever in the direction indicated by the arrow in the following figure.



#### Removing the Switch

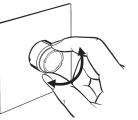
• Move the lever in the direction indicated by the arrow in the following figure, then pull the Pushbutton Unit or the Switch Blocks. Since the lever has a hole with an inside diameter of 6.5 mm, the lever can be moved in the specified direction by inserting a screwdriver into the hole and then moving the screwdriver.



#### Mounting/Replacing the Color Cap

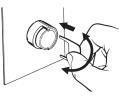
#### Projection, Fall-guard

• Grip and rotate the Color Cap with your fingers.



#### Half-guard Indicators

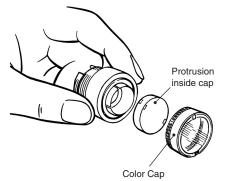
• Put the tips of the Cap Tightening Tool (A22Z-3908) into the Color Cap slot and turn the Tool.



#### Assembling the Cap

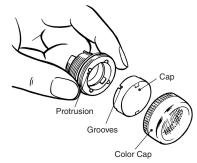
#### Lighted Pushbutton Switch

Mount the Color Cap so that the protrusions inside the cap fit into the grooves in the Pushbutton Unit.



#### Indicator

• Mount the Color Cap so that the protrusions inside the Pushbutton Unit fit into the grooves in the cap.



#### Square Pushbutton/Indicator

 Square Pushbutton/Indicator Insert the protruding tip of the Cap Puller (A3PJ-5080) into the Cap slot, hold the plate spring, and pull them to remove the Color Cap.

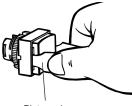
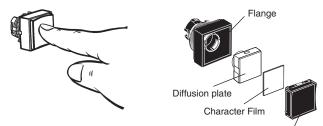


Plate spring

- Mounting the Color Cap:
- Mount the Color Cap on the flange and firmly push the Color Cap. When the Color Cap is inserted, check whether it operates properly. When replacing the Lamp, remove the Color Cap and diffusion plate with fingers or Cap Puller.

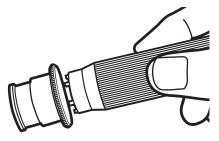
Attach the Character Film properly so that it fits inside the protruding part of the diffusion plate. Then, match the diffusion plate to the square flange and insert the Cap.



Color Cap

**Emergency Stop Switch** 

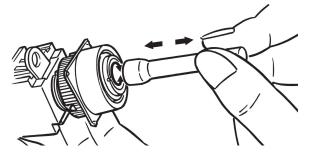
• Insert the protrusion of the Tightening Wrench (A22Z-3905) into the Cap slot and then turn to remove the Cap.



#### Installing/Replacing the Lamp

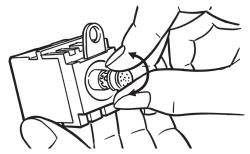
#### Installing/Replacing from the Panel Surface

• Insert the Lamp Extractor (A22Z-3901) into the lamp, then rotate the Extractor while pressing it.



#### Installing/Replacing on the Switch

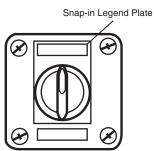
• Grip the lamp with your fingers, then rotate the lamp while pressing it against the Switch.



#### Control Box (Enclosure)

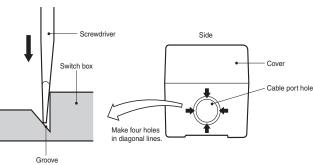
#### Mounting the Switch

The Standard-size Legend Plate Frame can be mounted. Mount the Frame as shown in the following diagram. Mount the Switch in the same way as for an ordinary panel.



#### **Creating a Cable Port Hole**

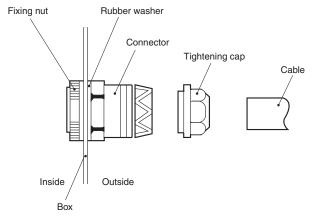
Place the tip of a screwdriver on the surface where the cable port hole is to be created with the cover attached and strike the screwdriver with a hammer to punch four holes.



#### Securing the Connector Cable

- 1. Insert the connector into the cable port hole in the Box and secure with the fixing nut inside the box.
- 2. Open a hole in the thin rubber section of the rubber ring.
- 3. Pass the tightening cap through the cable, insert the cable into the connector, and tighten the hexagonal nut to secure the cable.

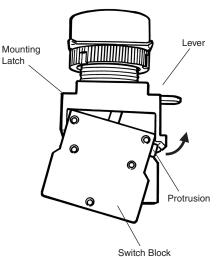
Connector
A22Z-3500-1
A22Z-3500-2



#### Switch Blocks

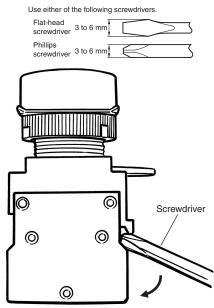
#### Installing the Switch Blocks

 Hook the small protrusion on the Switch Block into the groove on the Mounting Latch on the other side of the lever, then push up the Switch Block in the direction indicated by the arrow in the figure below.



**Removing the Switch Blocks** 

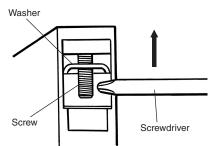
 Insert a screwdriver between the Mounting Latch and the Switch Block, then push down the screwdriver in the direction indicated by the arrow in the following figure.



#### Wiring

#### Wiring Round Crimp Terminals

• Loosen the terminal screw from the Switch Unit until it completely comes off the groove, insert a screwdriver as shown in the following figure, then push up the washer in the direction indicated by the arrow to temporarily secure it. Now, a round crimp terminal can be connected. After inserting the terminal, tighten the screws to complete wiring.



#### Engraving

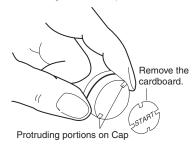
- Engrave the characters on the surface on the Cap. Make sure that the characters are aligned parallel to the imaginary line connecting the two protruding portions to the left and right of the Cap.
- The characters must not be engraved deeper than 0.5 mm. Apply an alcohol-based paint coating, such as melamine, alkyd, or acrylic resin paint coating, to the engraved characters.

Protruding portions on Cap  $_{\wedge}$ 



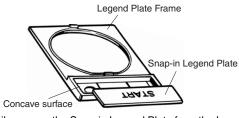
#### Affixing Character Film

• Hold the Cap, remove the cardboard on the Film, and attach the Film to the Cap. Make sure that the protruding portions of the Cap engage he cutout portions of the Film and that the characters are aligned parallel to the imaginary line connecting the two protruding portions to the left and right of the Cap.



#### Mounting and Dismounting Snap-in Legend

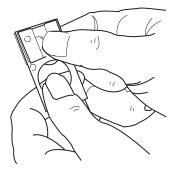
- Press and secure the Snap-in Legend Plate onto the Legend Plate Frame.
- The direction of the characters will vary with the mounting direction of the control panel if the Switch is a knob or key selector model.



• To easily remove the Snap-in Legend Plate from the Legend Plate Frame mounted to the panel, insert a Tool with a thin tip into the space between the Snap-in Legend Plate and the Legend Plate Frame.



- The Snap-in Legend Plate is easily removed by pressing the Snapin Legend Plate from the back of the Legend Plate Frame.
- The Legend Plate Frame is made of acrylic resin, which is easily damaged by shock. Be sure to handle the Legend Plate Frame with care.



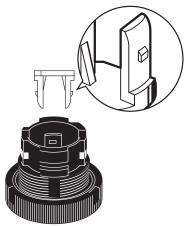
#### **Engraving Method**

#### Material: Acrylic

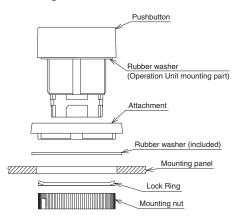
- Engrave the characters directly on the matted side of the Snap-in Legend Plate.
- The characters must be engraved no deeper than 0.5 mm.
- Apply alcohol-based paint coating to the engraved characters.
- If the Snap-in Legend Plate is transparent, engrave the mirrorwritten characters on the back of the Snap-in Legend Plate and apply paint coating to the characters. Then apply paint coating of a different color to the remaining part of the Snap-in Legend Plate.

#### **Mounting Three-throw Spacer**

Press and secure the two protruding portions of the Three-throw Spacer to the two indented portions of the inner side of the control panel.



#### Mounting the 30-dia. Resin Attachment



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