

Pushbutton Switches/Indicators  
A22R/M22R series

**OMRON**  
AUTOMATION & SAFETY

Robust and Graceful design

# Pushbutton Switches

Push Button

Secure and Human-centered



realizing

CE cULus CCCs Ro

Responds with *high grade*  
illumination to *various needs*

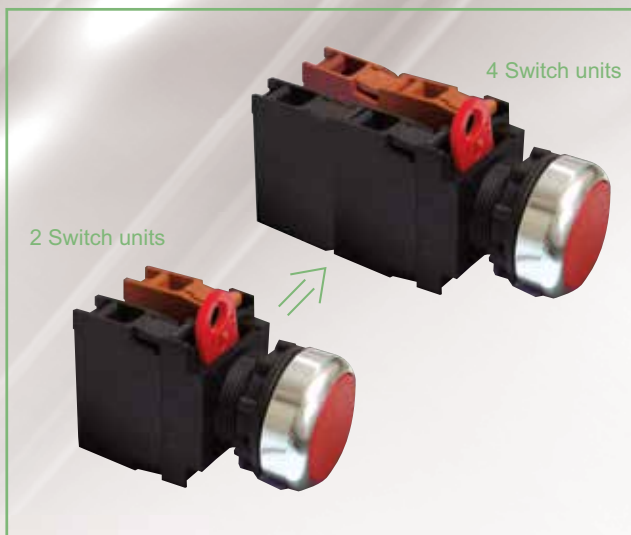
## 1 Shining Metal Ring

Provides shining and robust metal ring.



## 2 Soft to the touch

Gentle design for human.

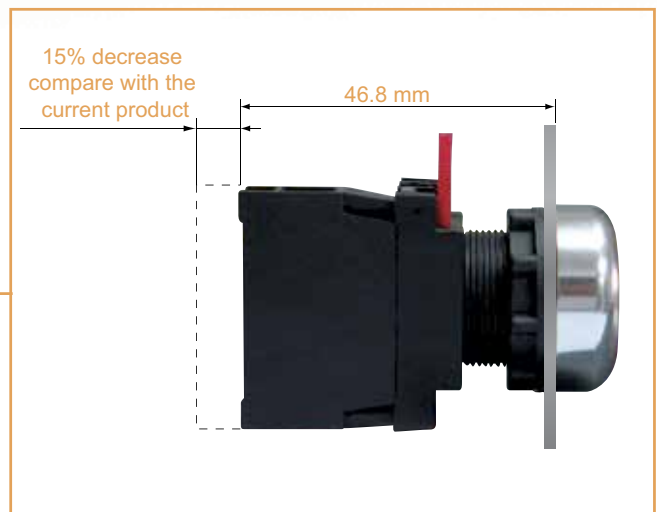


## 3 Additional unit type

Switch unit can be added.

## 4 Compact size

The body length under a panel decreased by 15% compare with our former products.



# Assembled Models

## Non-lighted Type



Flat type  
A22R-F□-□□

Projection type  
A22R-T□-□□

## Lighted Type



Projection type  
A22RL-T□-□-□□

## Selector Non-lighted Type



2 notches  
A22RS-2□-□

3 notches  
A22RS-3□-□

## Selector Lighted Type



2 notches  
A22RW-2□□-□-□

3 notches  
A22RW-3□□-□-□

## Key Selector Type



2 notches  
A22RK-2□-□

3 notches  
A22RK-3□-□

## Indicator



Indicator  
M22R-E□-□

## Emergency Stop Switch



\*Emergency  
A22E-□-□-□-□

\* Refer to the Safety Components Series Catalog (Cat. No. Y106) for detail.



# Operation Units

## Non-lighted Type



Flat type  
A22R-F□-□



Projection type  
A22R-T□-□

## Lighted Type



Projection type  
A22RL-T□-□

## Selector Non-lighted Type



2 notches  
A22RS-2□



3 notches  
A22RS-3□

## Selector Lighted Type



2 notches  
A22RW-2□□



3 notches  
A22RW-3□□

## Key Selector



2 notches  
A22RK-2□



3 notches  
A22RK-3□

## Switch Unit



Switch with Lamp socket  
A22RL-□M-□

## Socket



Socket  
A22R-□M

## Switch Block



Switch block  
A22R-□

## Lamp Socket



Lamp socket  
A22R-□

## Mounting Plate



Mounting plate  
A22R-3200

## LED



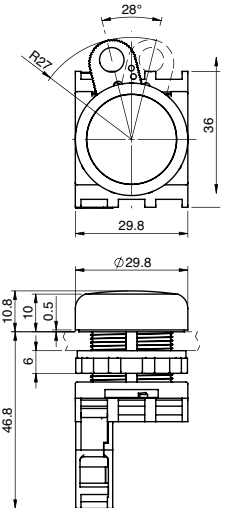









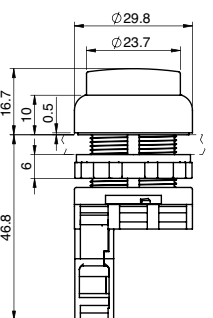









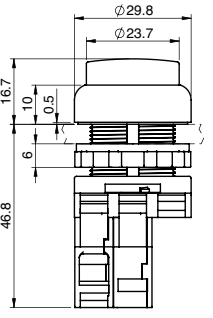











LED  
A22R-□□

# Assembled Models



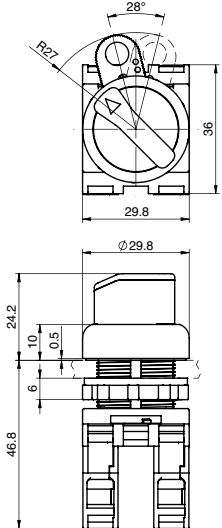





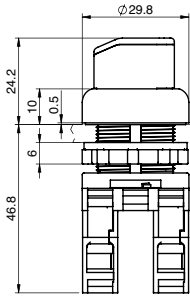



## Pushbutton Switches

• Non-lighted/Lighted

Appearance	Pushbutton shape	Pushbutton color	Contact form	Part No.	Dimensions		
	Round/Flat		1 NO	A22R-FW-10□			
			1 NO	A22R-FB-10□			
			1 NO	A22R-FG-10□			
			1 NO	A22R-FR-10□			
			1 NO	A22R-FY-10□			
			1 NO	A22R-FA-10□			
			1 NC	A22R-FB-01□			
			1 NC	A22R-FR-01□			
Insert one of the following letters into the box □. M: Momentary A: Alternate							
	Projection		1 NO	A22R-TW-10□			
			1 NO	A22R-TB-10□			
			1 NO	A22R-TG-10□			
			1 NO	A22R-TR-01□			
			1 NO	A22R-TY-10□			
			1 NO	A22R-TA-10□			
			1 NC	A22R-TB-01□			
			1 NC	A22R-TR-01□			
Insert one of the following letters into the box □. M: Momentary A: Alternate							
	Projection AC, DC 24V		1 NO	A22RL-TW-24A-10□			
			1 NO	A22RL-TG-24A-10□			
			1 NO	A22RL-TR-24A-10□			
			1 NO	A22RL-TY-24A-10□			
			1 NO	A22RL-TA-24A-10□			
	Projection AC 220V		1 NO	A22RL-TW-T2-10□			
			1 NO	A22RL-TG-T2-10□			
			1 NO	A22RL-TR-T2-10□			
			1 NO	A22RL-TY-T2-10□			
			1 NO	A22RL-TA-T2-10□			
		Insert one of the following letters into the box □. M: Momentary A: Alternate					

## Selector Switches



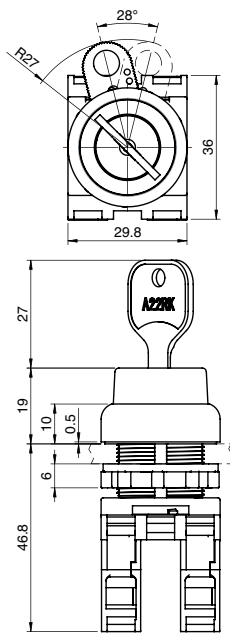





• Non-lighted/Lighted

Appearance	Number of notch	Knob position	Knob color	Contact form	Part No.	Dimensions	
	2 notches		●	1 NO	A22RS-2M-10		
			●	1 NO/1 NC	A22RS-2M-11		
			●	1 NO	A22RS-2A-10		
			●	1 NO/1 NC	A22RS-2A-11		
	3 notches		●	2 NO	A22RS-3M-20		
			●	2 NO	A22RS-3A-20		
		* These Non-lighted types provide black knobs.					
	2 notches AC, DC 24V		●	1 NO	A22RW-2MG-24A-10		
			●	1 NO/1 NC	A22RW-2MR-24A-11		
			●	1 NO	A22RW-2AY-24A-10		
			●	1 NO/1 NC	A22RW-2AA-24A-11		
	3 notches AC, DC 24V		●	2 NO	A22RW-3MG-24A-20		
			●	2 NO	A22RW-3MR-24A-20		
			●	2 NO	A22RW-3AY-24A-20		
			●	2 NO	A22RW-3AA-24A-20		

# Assembled Models


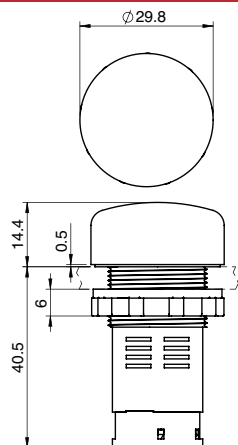
## Selector Switches

### • Key Selector

Appearance	Number of notch	Key position	Contact form	Part No.	Dimensions
	2 notches		1 NO	A22RK-2ML-10	
			1 NO/1 NC	A22RK-2ML-11	
			1 NO	A22RK-2M-10	
			1 NO/1 NC	A22RK-2M-11	
			1 NO	A22RK-2AL-10	
			1 NO/1 NC	A22RK-2AL-11	
○: key release position					
	3 notches		2 NO	A22RK-3ML-20	
			2 NO	A22RK-3M-20	
			2 NO	A22RK-3MC-20	
			2 NO	A22RK-3AC-20	
		○: key release position			

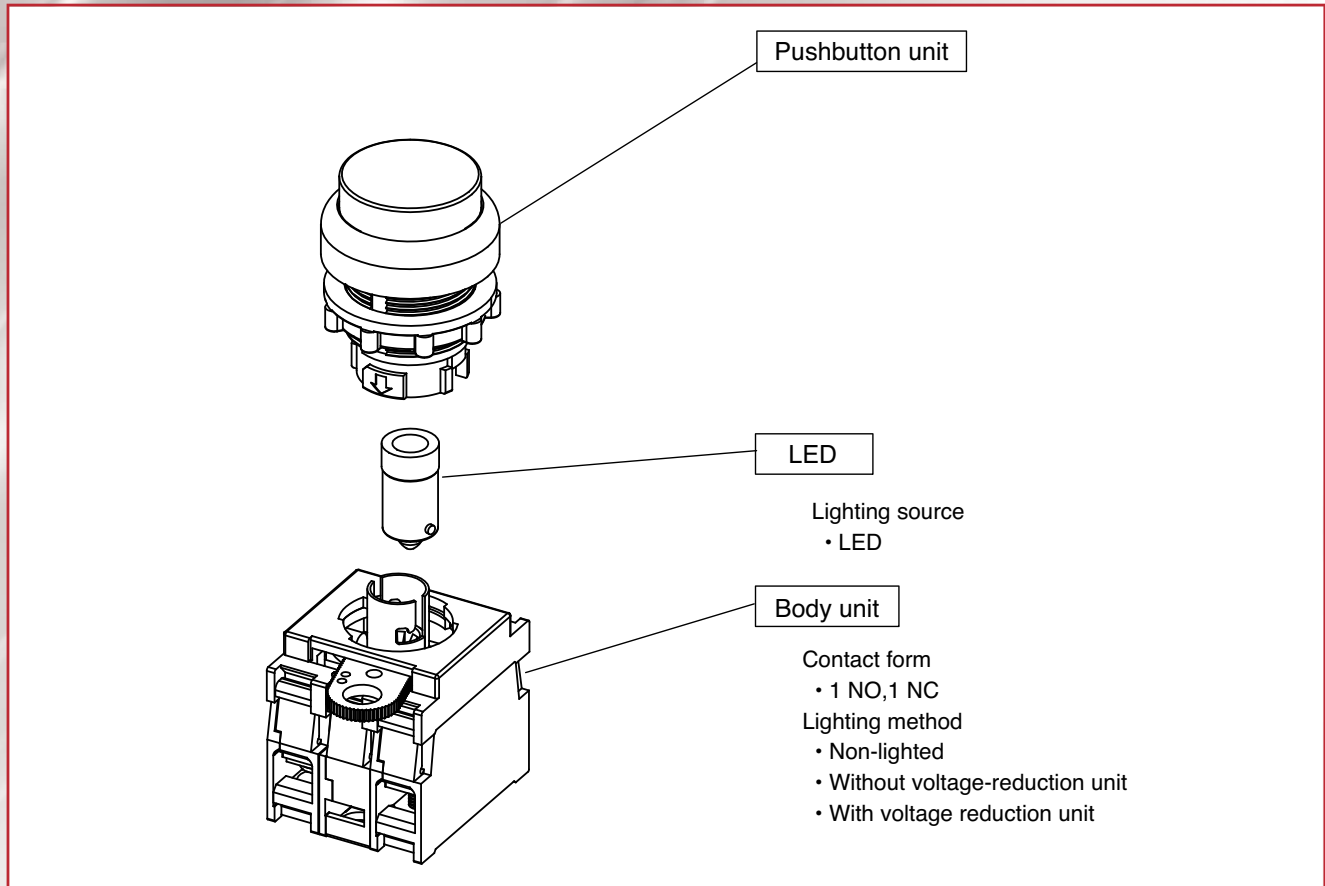
## Indicator

### • All-in-one type

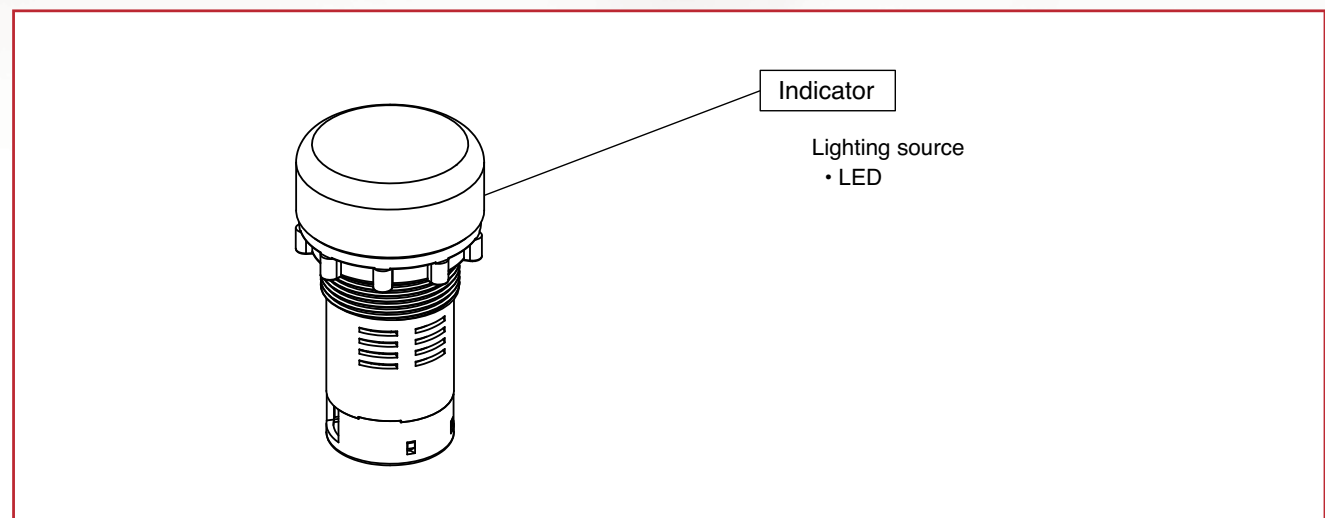
Appearance	LED rating	Indicator color	Part No.	Dimensions
	AC, DC 24V	○	M22R-EW-24A	
		●	M22R-EG-24A	
		●	M22R-ER-24A	
		●	M22R-EY-24A	
		●	M22R-EA-24A	
	AC 220V	○	M22R-EW-T2	
		●	M22R-EG-T2	
		●	M22R-ER-T2	
		●	M22R-EY-T2	
		●	M22R-EA-T2	
	AC 120V	○	M22R-EW-T1	
		●	M22R-EG-T1	
		●	M22R-ER-T1	
		●	M22R-EY-T1	
		●	M22R-EA-T1	



## A22R series





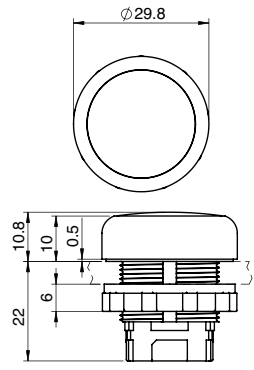







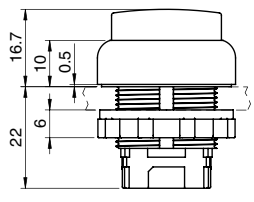







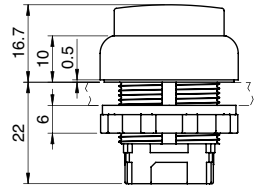




## M22R series



# Individual Unit




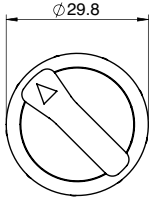





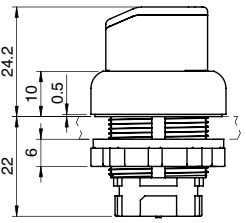





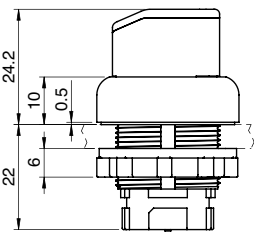

















## Pushbutton unit

• Non-lighted/Lighted

Appearance	Pushbutton shape	Pushbutton color	Part No.	Dimensions
	Round/Flat		A22R-FW-□	
			A22R-FB-□	
			A22R-FG-□	
			A22R-FR-□	
			A22R-FY-□	
			A22R-FA-□	
		Insert one of the following letters into the box □. M: Momentary A: Alternate		
	Projection		A22R-TW-□	
			A22R-TB-□	
			A22R-TG-□	
			A22R-TR-□	
			A22R-TY-□	
			A22R-TA-□	
		Insert one of the following letters into the box □. M: Momentary A: Alternate		
	Projection Lighted type		A22RL-TW-□	
			A22RL-TG-□	
			A22RL-TR-□	
			A22RL-TY-□	
			A22RL-TA-□	
		Insert one of the following letters into the box □. M: Momentary A: Alternate		

## Selector unit



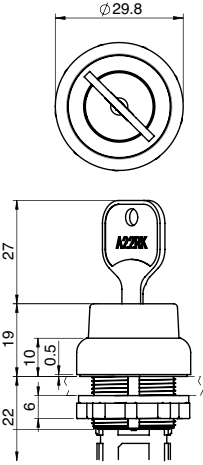







• Non-lighted/Lighted

Appearance	Number of notch	Knob position	Knob color	Part No.	Dimensions
	2 notches			A22RS-2M	
				A22RS-2A	
	3 notches			A22RS-3M	
				A22RS-3A	
				* These Non-lighted types provide black knobs.	
	2 notches Lighted Type			A22RW-2MG	
				A22RW-2MR	
				A22RW-2MY	
				A22RW-2MA	
				A22RW-2AG	
				A22RW-2AR	
				A22RW-2AY	
				A22RW-2AA	
	3 notches Lighted Type			A22RW-3MG	
				A22RW-3MR	
				A22RW-3MY	
				A22RW-3AA	
				A22RW-3AG	
				A22RW-3AR	

# Individual Unit


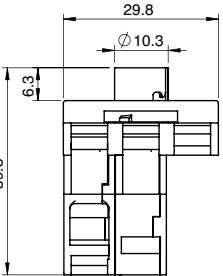
## Selector unit

### • Key Selector


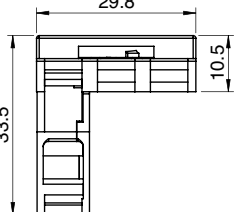
Appearance	Number of notch	Key position	Part No.	Dimensions
A22RK-2□ 	2 notches		A22RK-2ML	
			A22RK-2M	
			A22RK-2AL	
		○: key release position		
A22RK-3□ 	3 notches		A22RK-3ML	
			A22RK-3M	
			A22RK-3MC	
			A22RK-3AC	
		○: key release position		

## Switch unit

### • For Lighted type

Appearance	Type	Contact form	Part No.	Dimensions
A22RL-□M-□ 	Standard	1 NO	A22RL-10M	
		1 NC	A22RL-01M	
		2 NO	A22RL-20M	
		2 NC	A22RL-02M	
		1 NO/1 NC	A22RL-11M	
	AC 220V	1 NO	A22RL-10M-T2	
		1 NC	A22RL-01M-T2	
		2 NO	A22RL-20M-T2	
		2 NC	A22RL-02M-T2	
		1 NO/1 NC	A22RL-11M-T2	
	AC 120V	1 NO	A22RL-10M-T1	
		1 NC	A22RL-01M-T1	
		2 NO	A22RL-20M-T1	
		2 NC	A22RL-02M-T1	
		1 NO/1 NC	A22RL-11M-T1	


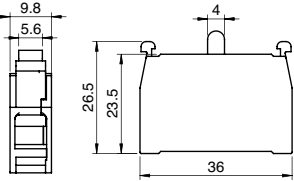
### • For Non-lighted type

Appearance	Type	Contact form	Part No.	Dimensions
A22R-□M 	Socket	1 NO	A22R-10M	
		1 NC	A22R-01M	
		2 NO	A22R-20M	
		1 NO/1 NC	A22R-11M	
		2 NC	A22R-02M	


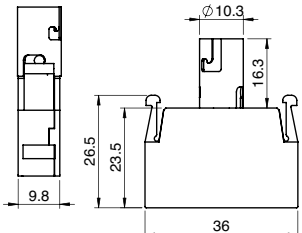


## Switch / Lamp units


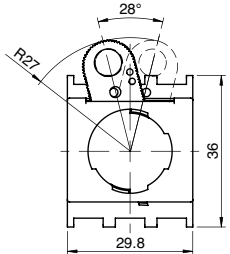
• Switch unit

Appearance	Unit	Contact form	Part No.	Dimensions
A22R-□ 	Contact block	1 NO	A22R-10	
		1 NC	A22R-01	
		* Additional one block can be mounted to make 2 NO, 2 NC, or 1 NO/1 NC.		

• Lamp socket

Appearance	Unit	Rating	Part No.	Dimensions
A22R-□ 	Lamp socket	Without voltage reduction unit AC/DC6V, AC/DC12V, AC/DC24V	A22R-TN	
		With voltage reduction unit AC220V	A22R-T2	
		With voltage reduction unit AC120V	A22R-T1	



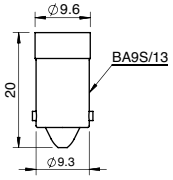














## Mounting plate

Appearance	Unit	Part No.	Dimensions
A22R-3200 	Mounting plate	A22R-3200	

# Individual Unit

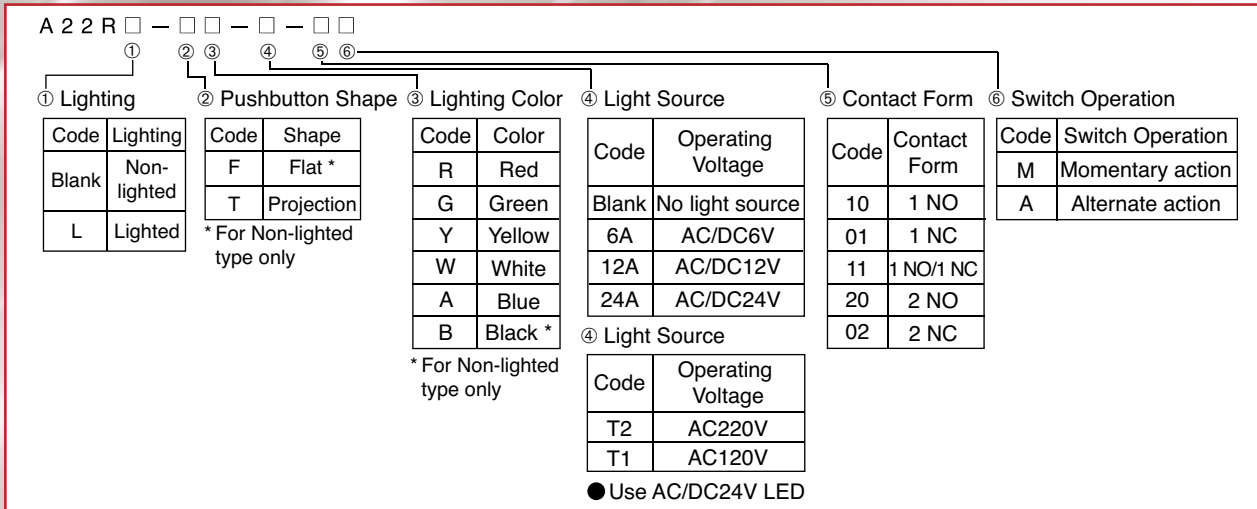
## Lamp unit

● LED

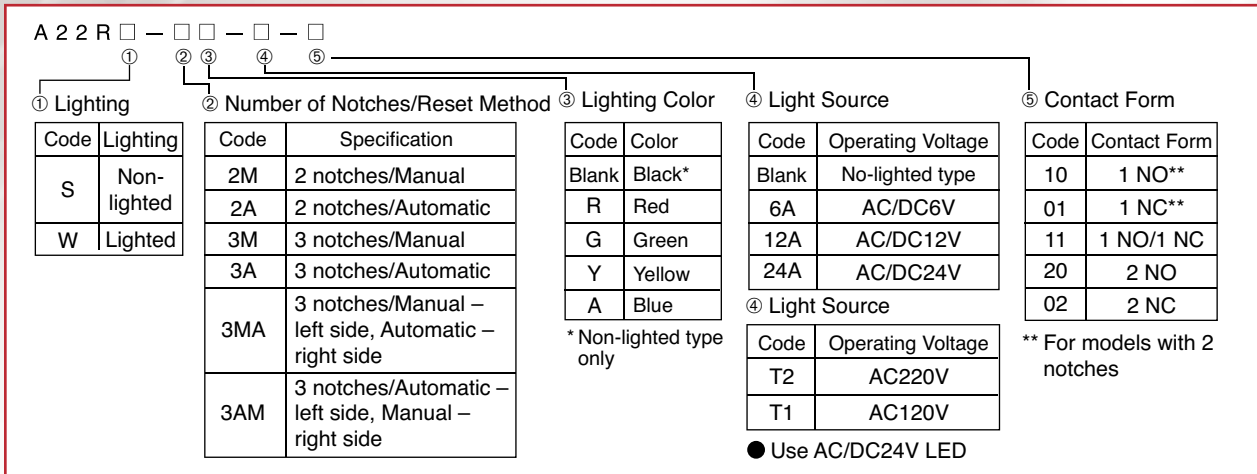
Appearance	LED operating voltage	Lighting color	Part No.	Dimensions
	LED AC/DC6V		A22R-6AW	
			A22R-6AG	
			A22R-6AR	
			A22R-6AY	
			A22R-6AA	
	LED AC/DC12V		A22R-12AW	
			A22R-12AG	
			A22R-12AR	
			A22R-12AY	
			A22R-12AA	
	LED AC/DC24V		A22R-24AW	
			A22R-24AG	
			A22R-24AR	
			A22R-24AY	
			A22R-24AA	

## Nomenclature

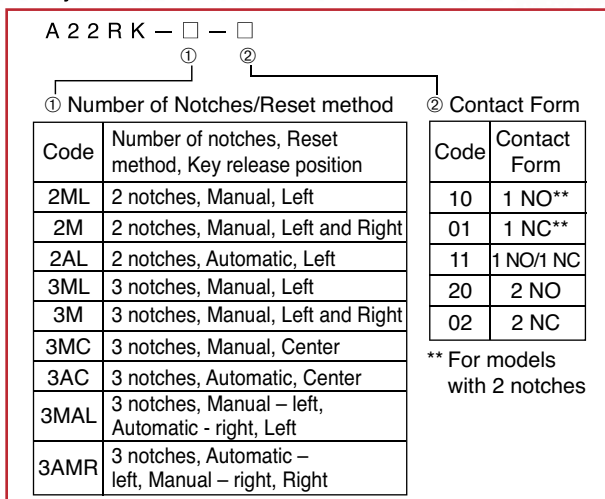
### ● Completely Assembled A22R□-□□-□-□□ Pushbutton switches



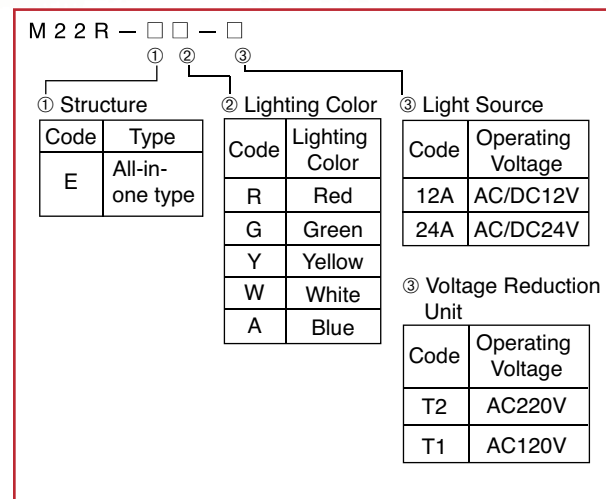
### ● Completely Assembled A22R□-□□-□-□□ Selector switches



### ● Completely Assembled A22RK-□-□ Key selector switches



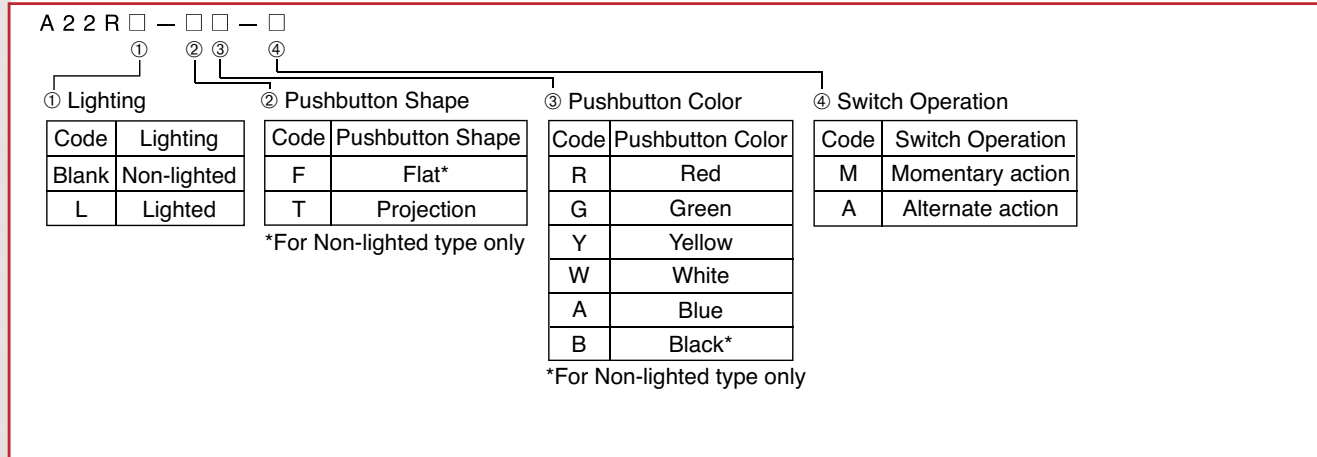
### ● Completely Assembled M22R-□□-□ Indicator



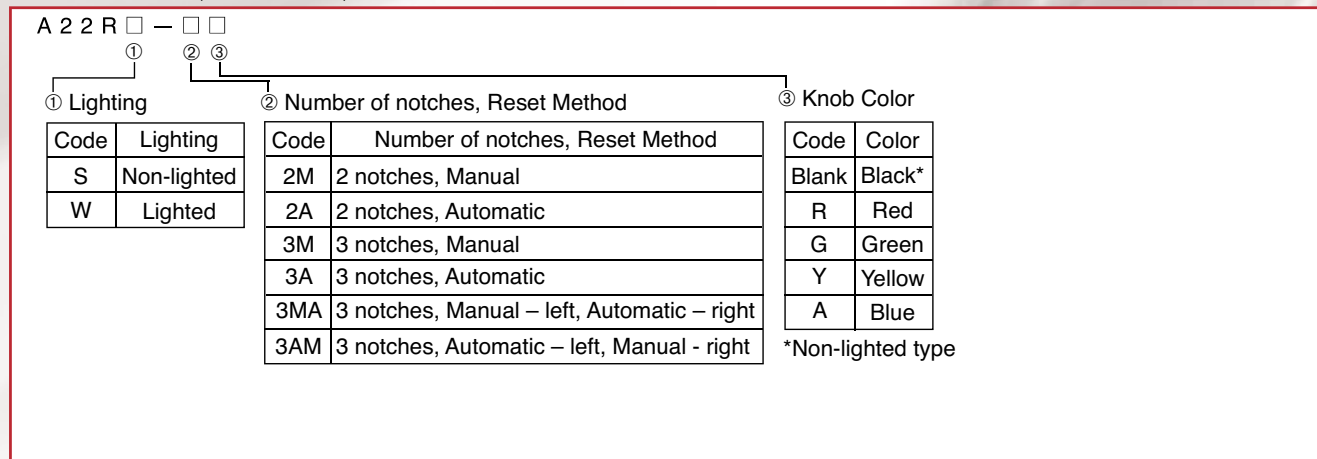
# Individual Unit

## Nomenclature

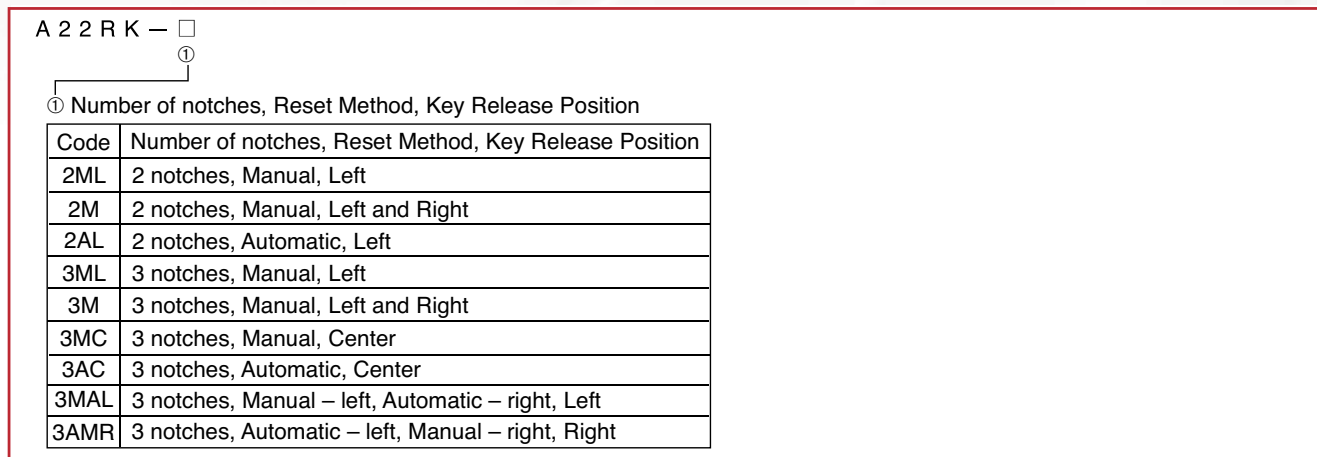
### ● Individual unit (Pushbutton unit) A22R□-□□-□ Pushbutton switches



### ● Individual unit (Selector unit) A22R□-□□ Selector switches



### ● Individual unit (Key selector unit) A22RK-□ Key selector switches





## Nomenclature

### ● Individual unit (Switch unit) A22R□-□M-□

A 2 2 R □ - □ M - □

① Lighting      ② Contact Form      ③ Switch Operation      ④ Voltage Reduction Unit

Code	Lighting
Blank	Non-lighted
L	Lighted

Code	Contact Form
10	1 NO
01	1 NC
11	1 NO/1 NC
20	2 NO
02	2 NC

Code	Switch Operation
M	Momentary action

Code	Operation Voltage
Blank	Non-lighted type
T2	AC220V*
T1	AC120V*

\*Use with an A22R-24□LED

### ● Individual unit (Switch block) A22R-□

A 2 2 R - □

① Contact Form

Code	Contact Form
10	1 NO
01	1 NC

### ● Individual unit (Voltage-reduction unit) A22R-□

A 2 2 R - □

① Body unit

Code	Operating Voltage
TN	AC/DC6V, AC/DC12V, AC/DC24V
T2	AC220V*
T1	AC120V*

\*Use with an A22R-24□LED

### ● Individual unit (LED) A22R-□□LED

A 2 2 R - □ □

① Operating Voltage      ② Lighting color




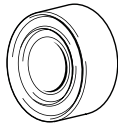

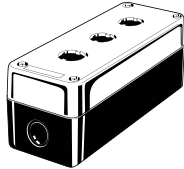


Code	Operating Voltage
6A	AC/DC6V
12A	AC/DC12V
24A	AC/DC24V

Code	Lighting color
R	Red
G	Green
Y	Yellow
W	White
A	Blue

# Accessories / Tools

## Items

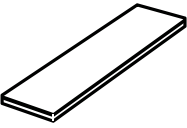
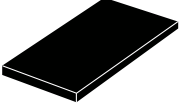
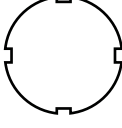
### ● Accessories

Item	Appearance	Classification		Part No.	Remarks	
Legend Plate Frames	Standard size 	With Snap-in Legend Plate (without text)	White	A22Z-3321	Snap-in Legend Plate is acrylic.	
			Red	A22Z-3322		
			Black	A22Z-3323		
	Without Snap-in Legend Plate		A22Z-3320			
	Large size 	With Snap-in Legend Plate (without text)	White	A22Z-3331		Snap-in Legend plate is acrylic.
			Red	A22Z-3332		
Black			A22Z-3333			
Without Snap-in Legend Plate		A22Z-3330				
Lock Ring		Round		A22Z-3360	The Lock Ring is used when more secure lock feature is required.	
Sealing Caps		For flat models		A22Z-3600F	Used to prevent dust or water from entering the Operation Unit (Pushbutton, etc.). Color: opaque Material: silicon	
		For projection models		A22Z-3600T		
Hole plug		Round		A22Z-3530	Can be plugged into pre-cut panel holes for future expansion. The color is black.	
Control Boxes		One hole		A22Z-B101	Material: Polycarbonate resin.	
		Two holes		A22Z-B102		
		Three holes		A22Z-B103		
Connectors		Applicable diameter (mm)	ø7 to 9	A22Z-3500-1	Plastic connector used to extend a cable from the Switch Box. (See page 30)	
			ø9 to 11	A22Z-3500-2		
Black Bezel		Black plastic bezel		A22RZ-3580-P	This bezel can be replaced from any metal bezel of A22R-F, A22RL-F, A22R-T, and A22RL-T series pushbuttons.	



# Accessories / Tools

## Items

### ● Accessories

Item	Appearance	Classification		Part No.	Remarks	
Legend Plates		Without text	Black	A22Z-3443B	Attached to the Standard Plate Frame. Material: Acrylic.	
			Red	A22Z-3443R		
			White	A22Z-3443W		
			Transparent	A22Z-3443C		
		With text	White text on red background	○		A22Z-3443R-2
				STOP		A22Z-3443R-4
			White text on black background			A22Z-3443B-1
				START		A22Z-3443B-3
				ON		A22Z-3443B-5
				OFF		A22Z-3443B-6
				UP		A22Z-3443B-7
				DOWN		A22Z-3443B-8
				POWER ON		A22Z-3443B-9
				OFF-ON		A22Z-3443B-10
				RESET		A22Z-3443B-11
Large size		Without text	Black	A22Z-3453B	Attached to the Large-size Legend Plate Frame. Material: Acrylic.	
			Red	A22Z-3453R		
			White	A22Z-3453W		
			Transparent	A22Z-3453C		
Character Films		No print (Round)		A22Z-3460	After printing on a film, affix to the indicator Plate of the Lighted Pushbutton Switch. (The back is coated with adhesive.)	
		Character Print (Round)		A22Z-3460-1		
			○	A22Z-3460-2		
			START	A22Z-3460-3		
			STOP	A22Z-3460-4		

### ● Tools

Item	Appearance	Part No.	Remarks
Lamp Extractor		A22Z-3901	Rubber tool used to easily replace Lamps.
Tightening wrench		A22Z-3905	Tool used to tighten nuts from the back of the panel.

# Specifications

## Approved standards

### ● Switch unit

<b>cULus</b>	UL 508/CSA C22.2 No.14 File No. E76675 6A 240VAC/10A 120VAC
<b>EN</b>	EN60947-5-1 (low voltage directive) 3A 240VAC (AC-15)
<b>CCC</b>	GB/14048.5-2001 3A 240VAC/1.5A 24VDC

### ● Lamp unit

<b>cULus</b>	UL 508/CSA C22.2 No.14 File No. E76675 24VAC/DC MAX
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### ● Voltage-reduction unit

<b>cULus</b>	UL 508/CSA C22.2 No.14 File No. E76675 T2: 220VAC, T1: 120VAC
<b>CCC</b>	GB/14048.5-2001 T2: 220VAC, T1: 120VAC

### ● Indicator

<b>cULus</b>	UL 508/CSA C22.2 No.14 File No. E76675 12A: 12VAC/DC 24A: 24VAC/DC T2 : 220VAC, T1: 120VAC
<b>CCC</b>	GB/14048.5-2001 T2 : 220VAC, T1: 120VAC

## Ratings

### ● Contacts

Rated current (A)	Rated voltage (V)	Inductive load	
		Rated current (A)	Power factor
10	240	3	0.4

Rated current values are determined according to the testing conditions. The above ratings were obtained by conducting tests under the following conditions:

Ambient temperature: 20+/- 2°C

Ambient humidity: 65+/-5%RH

Operating frequency: 30 operations/minute

### ● LED (For pushbutton unit)

Operating voltage	Current consumption
AC/DC 6V±5%	20mA
AC/DC 12V±5%	20mA
AC/DC 24V±5%	20mA

### ● LED (For indicator unit)

Operating voltage	Current consumption
AC/DC 12V±5%	20mA
AC/DC 24V±5%	20mA

### ● Voltage reduction unit (For lighted pushbutton units)

Operating voltage	Current consumption
T2: AC 200V (190 to 230V)	20mA
T1: AC 120V (110 to 130V)	20mA



## Characteristics

### ● Environment

<b>Ambient temperature*1</b>	Non-lighted type: -20 to +60°C Lighted type: -20 to +50°C
<b>Ambient humidity</b>	-35 to 85%RH
<b>Storage temperature*1</b>	-40 to +70°C
<b>Protective code*2</b>	IP65
<b>Vibration resistance</b>	10 to 55Hz, Double amplitude 1.5mm
<b>Shock resistance</b>	Non-lighted type: 1,000m/s <sup>2</sup> Lighted type: 600m/s <sup>2</sup>

\*1: With no icing or condensation

\*2: Protection against dust or water from the front of a mounting panel side

### ● Operation

<b>Operation</b>	Slow action	
<b>Operating frequency</b>	<b>Mechanical</b>	Momentary operation: 60 operations/minute max.
	<b>Electrical</b>	Knob-type and Key-type selector: 30 operations/minute max.
<b>Mechanical durability</b>	Momentary switch :3,000,000 operations Alternate, Key/Knob Selector switches: 300,000 operations	

### ● Electrical Characteristics (Switch block)

<b>Insulation resistance</b>	100MΩ Minimum (At 500VDC)
<b>Dielectric strength</b>	Between terminals of same polarity: AC2,500V 50/60Hz for 1 minute Between terminals of different polarity: AC2,500V 50/60Hz for 1 minute
<b>Rating</b>	AC-15, A600, Ue=240V, Ie=3A
<b>Rated insulation voltage</b>	Ui=600V, Pollution degree: 3
<b>Conditional short-circuit current</b>	10A, IEC60209-1
<b>Electrical durability</b>	500,000 operations Minimum (at AC 240V, 3A, cosφ=0.4)

# Characteristics

## Operating characteristics

- Pushbutton switch (1 NO / 1 NC)

<b>Total Travel Force (TTF)</b>	29.4N Maximum
<b>Total Travel (TT)</b>	5.5mm Maximum

- Knob-type selector switch (1 NO / 1 NC)

<b>Total Travel Force (TTF)</b>	Manual reset: 0.34N·m Maximum * Auto-reset 2-notch: 0.25N·m * 3-notch: 0.34N·m *
<b>Total Travel (TT)</b>	2-notch: approx. 90 degree (3-notch: approx.45 degree)
<b>Releasing Force (RF)</b>	Manual reset: 0.34N·m Maximum *

\* Rotation torque for knob type/key type selector switches.

- Key-type selector switch (1 NO / 1 NC)

<b>Total Travel Force (TTF)</b>	Manual reset: 0.34N·m Maximum * Auto-reset 2-notch: 0.25N·m * 3-notch: 0.34N·m *
<b>Total Travel (TT)</b>	2-notch: approx. 90 degree (3-notch: approx.45 degree)
<b>Releasing Force (RF)</b>	Manual reset: 0.34N·m Maximum *

\* Rotation torque for knob type/key type selector switches.

## Terminal Arrangement

● Bottom view (unit: mm)

No-lighted (1 NO / 1 NC)	Lighted	Indicator

## Terminal connection

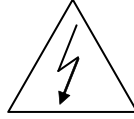
Type	Terminal connection
Non-lighted (1 NO / 1 NC)	<p>BOTTOM VIEW</p>
Lighted without voltage reduction unit (1 NO / 1 NC)	<p>BOTTOM VIEW</p> <p>* LED: For AC/DC</p>
Lighted with voltage reduction unit (1 NO / 1 NC)	<p>BOTTOM VIEW</p>

# Precautions

## Precautions

### ⚠ Warning

Do not wire and/or touch the switch terminal while power is supplied to the switch to avoid electric shock.



### Correct Use

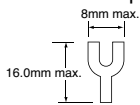
#### ● Mounting

- 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 1.96N·m.
- Recommended panel thickness: 1 to 5 mm.

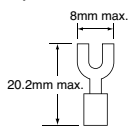
#### ● Wiring

- Terminal screws must be Phillips with a square washer.
- The tightening torque is 1.08 to 1.27N·m.
- Single wires, stranded wires and crimp terminals except round type can be connected to the Switch.
- Applicable Wire Size

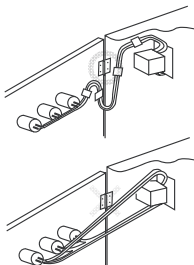
Strand wire: 2mm<sup>2</sup> Maximum  
 Solid wire: 1.6mm diameter Maximum  
 Bare Crimp Terminals



#### Crimp Terminal with Insulating Sheath



- Secure appropriate insulation distance after wiring of the Switch.
- Perform wiring so that the lead wires will not be caught on other objects as this will cause stress on the Switch terminals. Wire the Switch so that there is slack in the lead wires and fix lead wires at intermediate points. If the panel to which the Switch is mounted needs to be opened and closed for maintenance purpose, perform wiring so that the opening and closing of the panel will not interfere with the wiring.

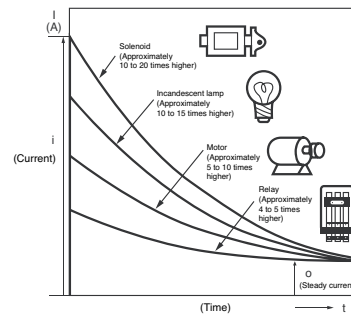


#### ● Operational Environment

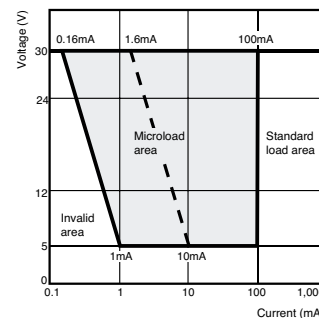
- The IP65 model is designed with a degree of protection so that it will not sustain damage if it is subject to water from any direction to front of the panel.
- This Switch is indoor use only. Outdoor use of the Switch will cause operation failure of the Switch.
- Do not use the Switch in the water, oil, or in locations where water, oils, detergent, chemicals, or solvent is applied to the Switch always. Otherwise, switching failure will be happened.
- Do not use the Switch under the environmental condition where corrosive gas (ammonia, chlorine, dioxide sulfur... etc.) is generated. Otherwise, the Switch will corrode.
- Do not use the Switch in locations where dust, metal or plastic dust exists. Dust will accumulate on the Switch, and then the Switch wouldn't operate normally.
- Do not use the Switch under the environmental condition where excessive vibration or shock exists. Otherwise, incorrect switching would occur.

#### ● Electrical Conditions

- The switching load capacity of the Switch greatly varies between AC and DC. Always be sure to apply the rated load. The control capacity will drastically drop if it is a DC load. This is because a DC load has no current zero-cross point, unlike an AC load. Therefore, if an arc is generated, it may continue for a comparatively long time. Furthermore, the current direction is always the same, which results in a contact relocation phenomena whereby the contacts easily stick to each other and do not separate when the surfaces of the contacts are uneven.
- Some types of load have a great difference between normal current and inrush current. Make sure that the inrush current is within the permissible value. The greater the inrush current in the closed circuit is, the greater the contact abrasion or shift will be. Consequently, contact weld, contact separation failures, or insulation failures may result. Furthermore, the Switch may be broken or damaged.
- If the load is inductive, counter-electromotive voltage will be generated. The higher the voltage is, the higher the generated energy will be, which increase the abrasion of the contacts and contact relocation phenomena. Be sure to use the Switch within the rated conditions.



- Before using the Switch, be sure to test the Switch under actual conditions.
- This product is a standard load type Switch. Using the Switch for opening and closing a microload circuit may cause contact failure. Use the Switch within the operating range as shown in below chart.



- When use the Switch for opening and closing a microload or large-load, use the Switch with an appropriate relay.

## Precautions

### ● Switching

- Do not use the Switch for loads that exceed the rated switching capacity or other contact ratings. Doing so may result in contact weld, separation failure, or insulation failures. Furthermore, the Switch may be broken or damaged.
- Do not touch the charged switch terminals while power is supplied, otherwise an electric shock may be received.
- The life of the Switch varies greatly with switching conditions. Before using the Switch, be sure to test the Switch under actual conditions. Make sure that the number of switching operations is within the permissible range. If a deteriorated Switch is used continuously, insulation failures, contact weld, contact failures, switch damage, or switch burnout may result.
- Do not apply excessive or incorrect voltages to the Switch or incorrectly wire the terminals. Otherwise, the Switch may not function properly and have an adverse effect on external circuitry. Furthermore, the Switch itself may become damaged or burnt.
- Do not use the Switch in locations where flammable or explosive gasses are present. Otherwise switching arcs or heat radiation may cause a fire or explosion.
- Do not drop or disassemble the Switch, otherwise it may not be capable of full performance. Furthermore, it may be broken or burnt.

### ● LED

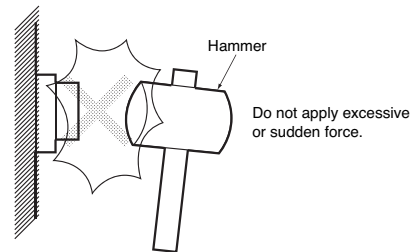
- The LED current-limiting resistor is built-in, so internal resistance is not required.
- If commercially available LEDs are used, select the ones that meet the following conditions:  
Base: BA9S/13□  
Overall length: 26mm Maximum  
Power consumption: 2.6 W Maximum

### ● Storage

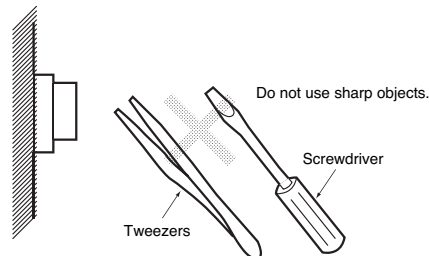
- When the Switch is left unused or stored for long periods, the ambient conditions can have a great effect on the condition of the Switch. In certain environments, leaving the Switch exposed may result in deterioration (i.e., oxidation, or the creation of an oxide film) of the contacts and terminals, causing the contact resistance to increase, and making it difficult to solder the lead wires. Therefore, store in a well-ventilated room, inside, for example, a non-hygroscopic case, in a location where no corrosive gasses are present.
- If the Switch is stored in a location where it will be exposed to direct light, colored resin in the colored plate may fade. Therefore, do not store the Switch in locations where it will be exposed to direct light.

### ● Mechanical Conditions

- Operating the Switch using a hard object (e.g., metal), or with a large or sudden force, may deform or damage the Switch, resulting in faulty or rough operation, or shortening of the Switch life.



- The pushbutton surface is composed of resin. Therefore, do not attempt to operate the pushbutton using a sharp object, such as a screwdriver or a pair of tweezers. Also, do not drop, throw, or knock the Switch. Doing so may damage or deform the pushbutton surface and result in faulty operation.



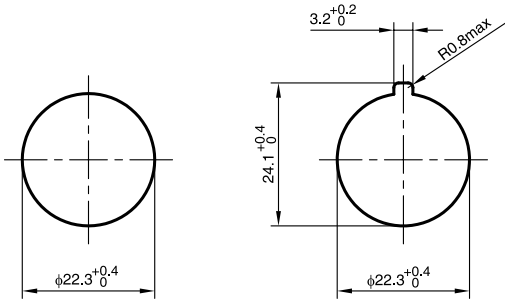
- Periodic maintenance is required to use the Switch stably.

# Installation

## Mounting to the Panel

### ① Panel Hole Dimensions

- The cutout dimensions are as shown in below:



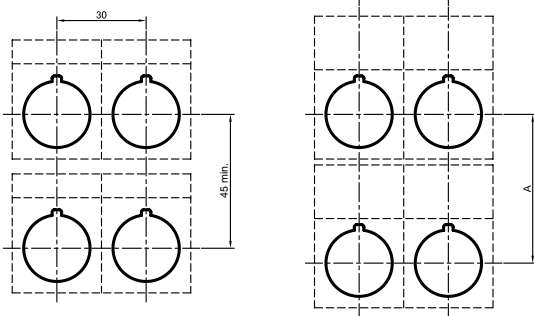
When Lock Ring is not used.

When Lock Ring is used.

- Recommended panel thickness is 1 to 5mm.
- In outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

### ② Matrix Installation

- 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.
- 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.

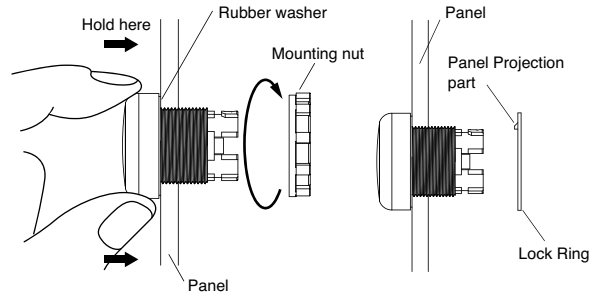


Type of crimp terminal	Dimension A
Bare crimp terminals	51 mm Minimum
Crimp terminals with insulating sheath	60 mm Minimum

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

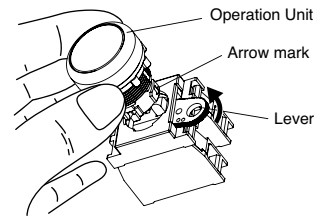
### ③ Mounting the Operation Unit on the Panel

- 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 1.96N·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.



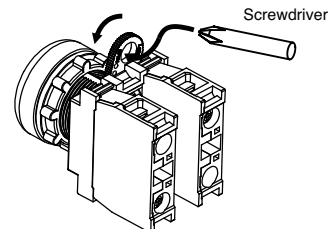
### ④ Mounting the Switch on the Pushbutton Unit

- 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.



### ⑤ Removing the Switch

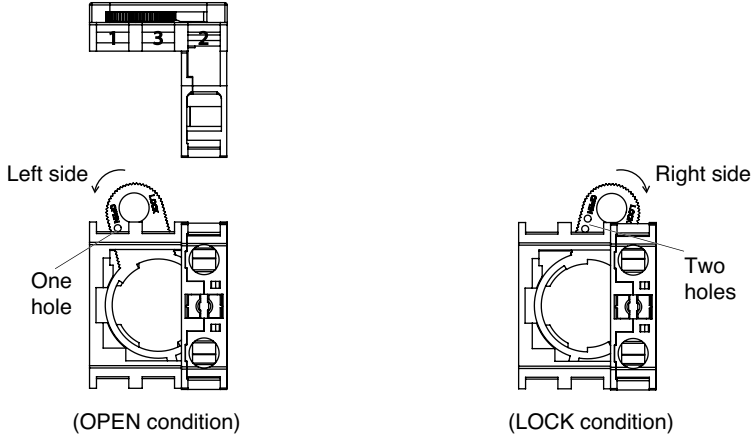
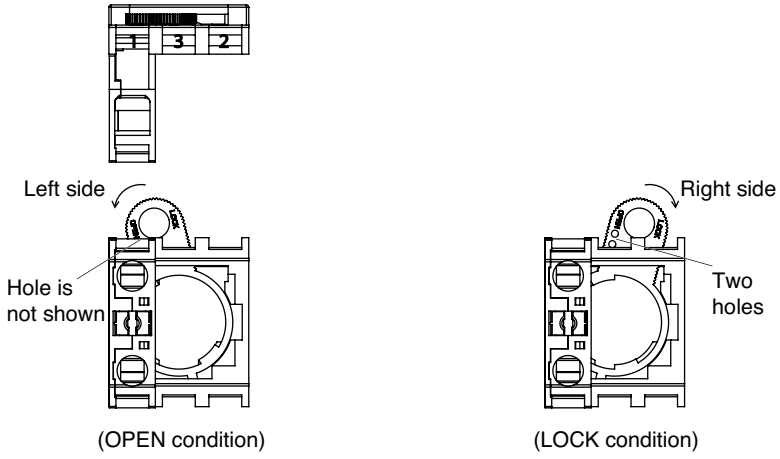
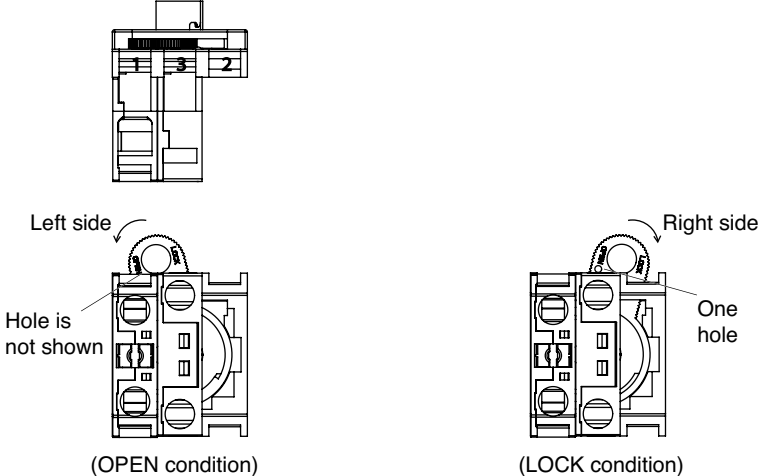
- Move the lever in the direction indicated by the arrow in the following figure, then pull the Pushbutton Unit or the Switch Blocks.
- Since the lever has a hole with an inside diameter of 6.5mm, the lever can be moved in the specified direction by inserting a screwdriver into the hole and then moving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





## How to confirm the Lever Position, OPEN or LOCK

- The Lever Position, OPEN (Operation unit is not fixed)/LOCK (Operation unit is fixed), can be confirmed from the Switch terminal side.

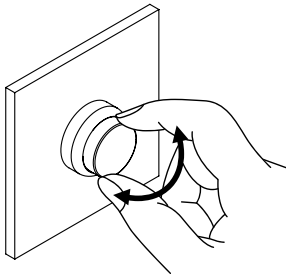
<p>In case that no switch block is mounted on the mounting plate No.1.</p>	 <p>Left side</p> <p>Right side</p> <p>One hole</p> <p>Two holes</p> <p>(OPEN condition)</p> <p>(LOCK condition)</p>
<p>In case that a switch block is mounted on the mounting plate No.1.</p>	 <p>Left side</p> <p>Right side</p> <p>Hole is not shown</p> <p>Two holes</p> <p>(OPEN condition)</p> <p>(LOCK condition)</p>
<p>In case that a switch block is mounted on the mounting plate No.1 and an indicator unit is mounted on the mounting plate No.2.</p>	 <p>Left side</p> <p>Right side</p> <p>Hole is not shown</p> <p>One hole</p> <p>(OPEN condition)</p> <p>(LOCK condition)</p>

# Installation

## Mounting/Replacing the Color Cap

### Projection type

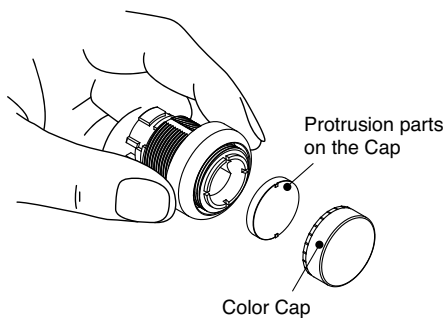
- Grip and rotate the Color Cap with your fingers.



## Assembling the Cap

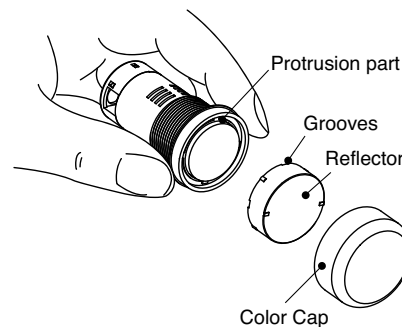
### ① Projection type Lighted Pushbutton Switch

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



### ② Indicator

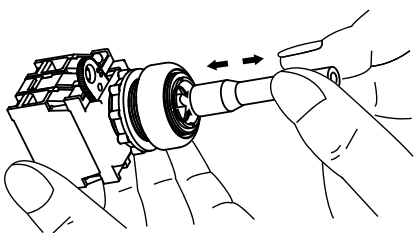
- Mount the Color Cap so that the protrusions inside the cap fit into the grooves in the cap.



## Installing/Replacing the LED

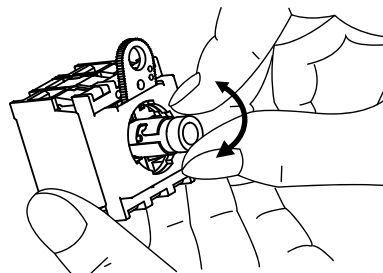
### ① Installing/Replacing from the Panel Surface

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



### ② Installing/Replacing on the Switch

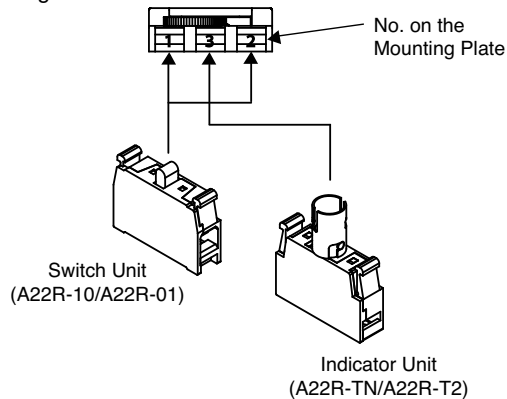
- Grip the lamp with your fingers, then rotate the lamp while pressing it against the Switch.



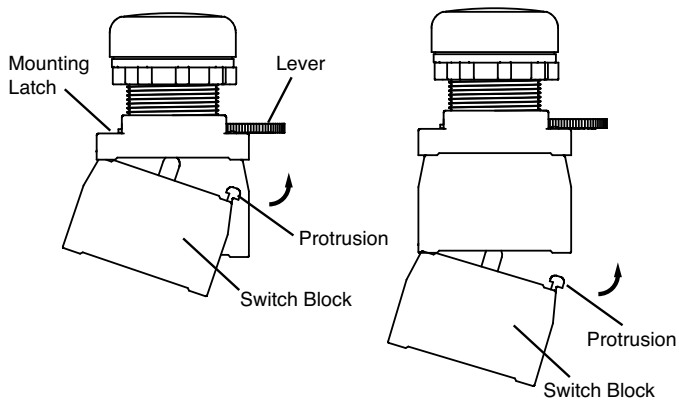
## Mounting/Replacing the Switch Unit and Indicator Unit

### ① Installing the Switch Blocks

- Mount the Unit according to the indicate numbers on the Mounting Plate.



- 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:
- One more Switch Block can be mounted.

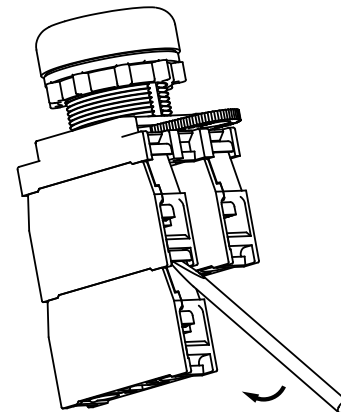
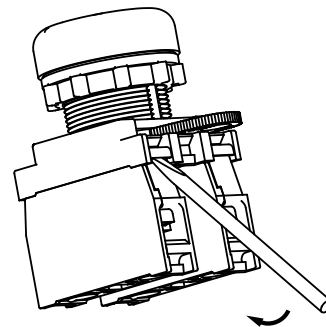
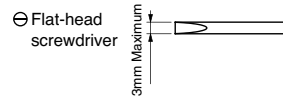


**Note:** In case that two Switch Block are mounted, a Control Box cannot be used.

### ② Removing the Switch Base

- 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.

Use the following screwdrivers.

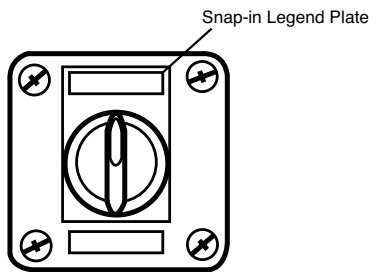


# Installation

## Control Box

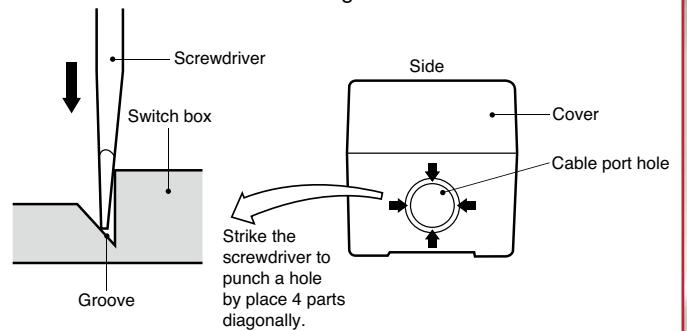
### ① Mounting the Switch

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



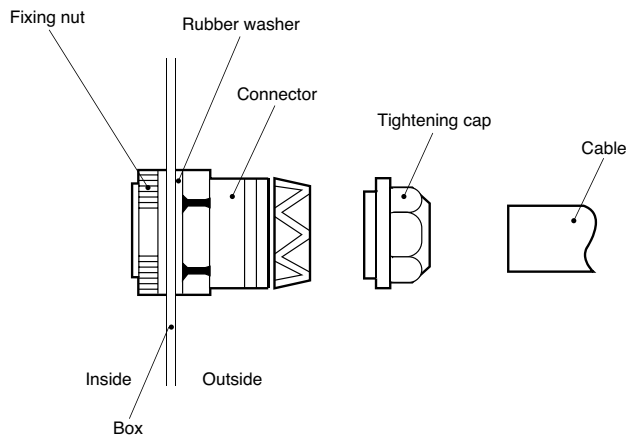
### ② Creating a Cable Port Hole

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 to punch a hole. Attempts to punch a hole on the other side of the case will damage the Box.



### ③ Securing the Connector Cable

- ① Insert the connector into the cable port 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.

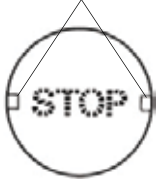


Cable diameter (mm)	Connector
7 to 9 mm dia.	A22Z-3500-1
9 to 11 mm dia.	A22Z-3500-2

## 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 0.5mm. Apply an alcohol-based paint coating, such as melamine, alkyd, or acrylic resin paint coating, to the engraved characters.

Protruding portions of the Cap

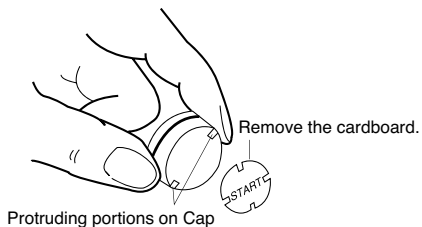


**Material: Acrylic**

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

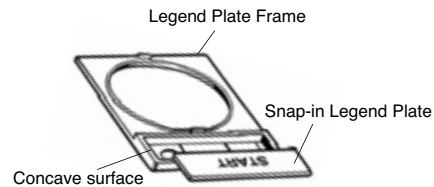
## Affixing Character Film

- Hold the Cap, remove the cardboard of the Film, and attach the Film to the Cap. Make sure that the protruding portions of the Cap engage the 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

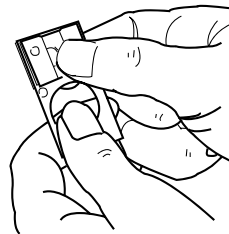
- Press and secure the Snap-in Legend Plate onto the Legend Plate Frame.
- The direction of the characters will vary with the mounting direction of the control panel if the Switch is a knob or key selector model.



- 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.

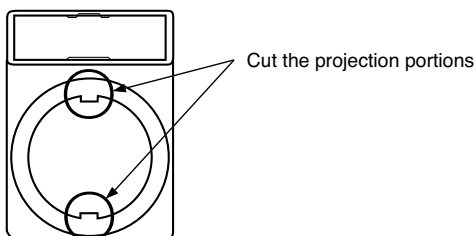


- The Snap-in Legend Plate is easily removed by pressing the Snap-in Legend Plate from the back of the Legend Plate Frame.
- The Legend Plate Frame is made of acrylic resin, which is easily damaged by shock. Be sure to handle the Legend Plate Frame with care.

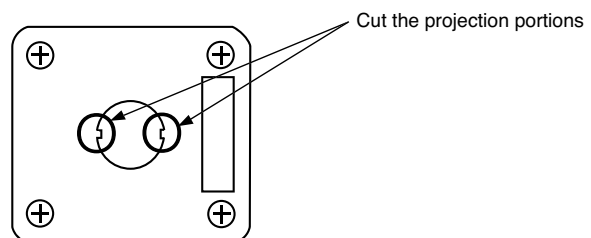


## Precautions when use the Indicators

- Lock Ring (A22Z-3360) cannot be used.
- When use the Legend Plate Frames (A22Z-332□, A22Z-333□) cut the projection portions shown in the below fig.



- When use the Control Box (A22Z-B10□), cut the projection portions shown in the below fig.



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