

CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

NEW

OMRON

Pushbutton Switches/Indicators
A22R/M22R series

Robust and Graceful design

Pushbutton Switches

Push Button

Secure and Human-centered



realizing

Hotline: 1900.6536 - Website: HOPLONGTECH.COM



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

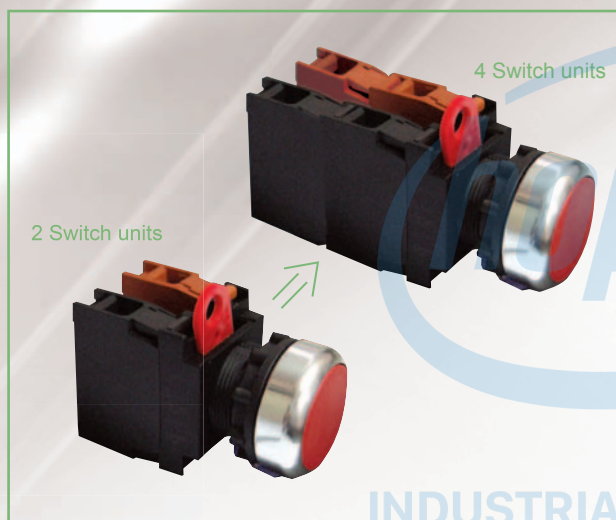
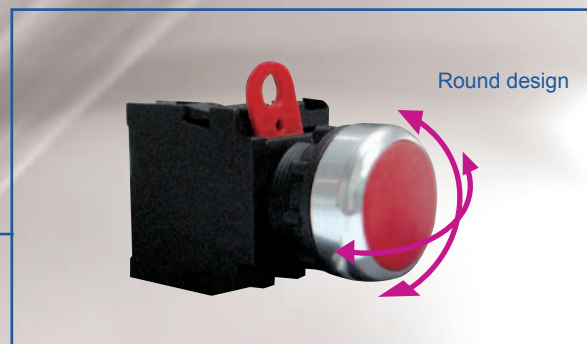
1 Shining Metal Ring

- Provides shining and robust metal ring.



2 Soft to the touch

- Gentle design for human.



3 Additional unit type

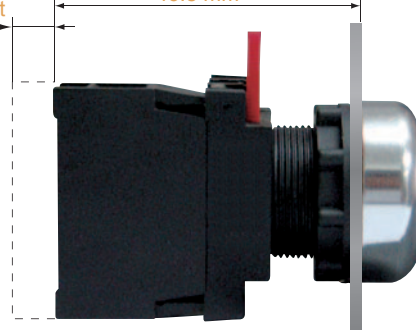
- Switch unit can be added.

4 Compact size

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

15% decrease
compare with the
current product

46.8 mm



Assembled Models

Non-lighted Type



Flat type
A22R-F□-□□



Projection type
A22R-T□-□□

Lighted Type

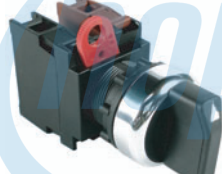


Projection type
A22RL-T□-□-□□

Selector Non-lighted Type

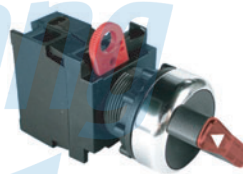


2 notches
A22RS-2□-□



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



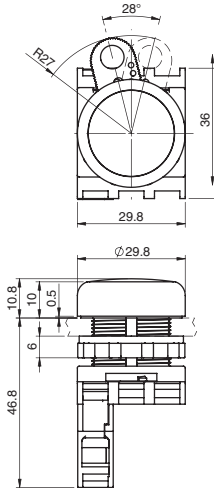









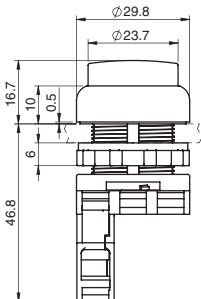









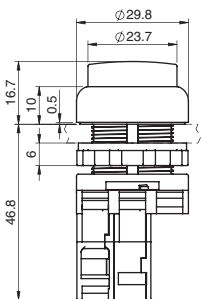











LED
A22R-□□

Assembled Models

Pushbutton Switches




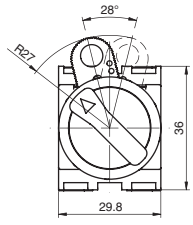







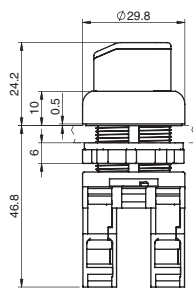




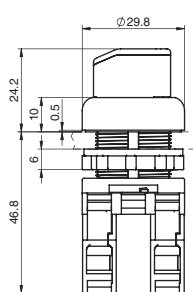











● Non-lighted/Lighted

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

Assembled Models

Selector Switches



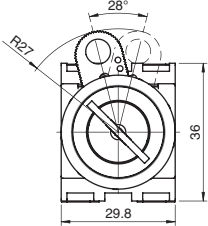




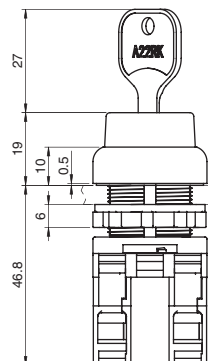



● Non-lighted/Lighted

Appearance	Number of notch	Knob position	Knob color	Contact form	Part No.	Dimensions	
	2 notches			1a	A22RS-2M-10		
				1a1b	A22RS-2M-11		
				1a	A22RS-2A-10		
				1a1b	A22RS-2A-11		
	3 notches			2a	A22RS-3M-20		
				2a	A22RS-3A-20		
		* These Non-lighted types provide black knobs.					
	2 notches AC, DC 24V			1a	A22RW-2MG-24A-10		
				1a1b	A22RW-2MR-24A-11		
				1a	A22RW-2AY-24A-10		
				1a1b	A22RW-2AA-24A-11		
	3 notches AC, DC 24V			2a	A22RW-3MG-24A-20		
				2a	A22RW-3MR-24A-20		
				2a	A22RW-3AY-24A-20		
				2a	A22RW-3AA-24A-20		

Assembled Models



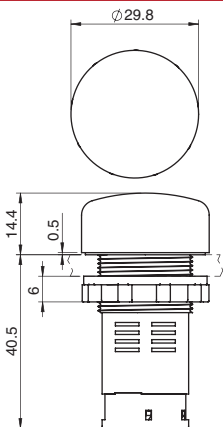









Selector Switches

● Key Selector

Appearance	Number of notch	Key position	Contact form	Part No.	Dimensions		
	2 notches		1a	A22RK-2ML-10			
			1a1b	A22RK-2ML-11			
			1a	A22RK-2M-10			
			1a1b	A22RK-2M-11			
			1a	A22RK-2AL-10			
			1a1b	A22RK-2AL-11			
○: key release position							
	3 notches		2a	A22RK-3ML-20			
			2a	A22RK-3M-20			
			2a	A22RK-3MC-20			
			2a	A22RK-3AC-20			
		○: key release position					

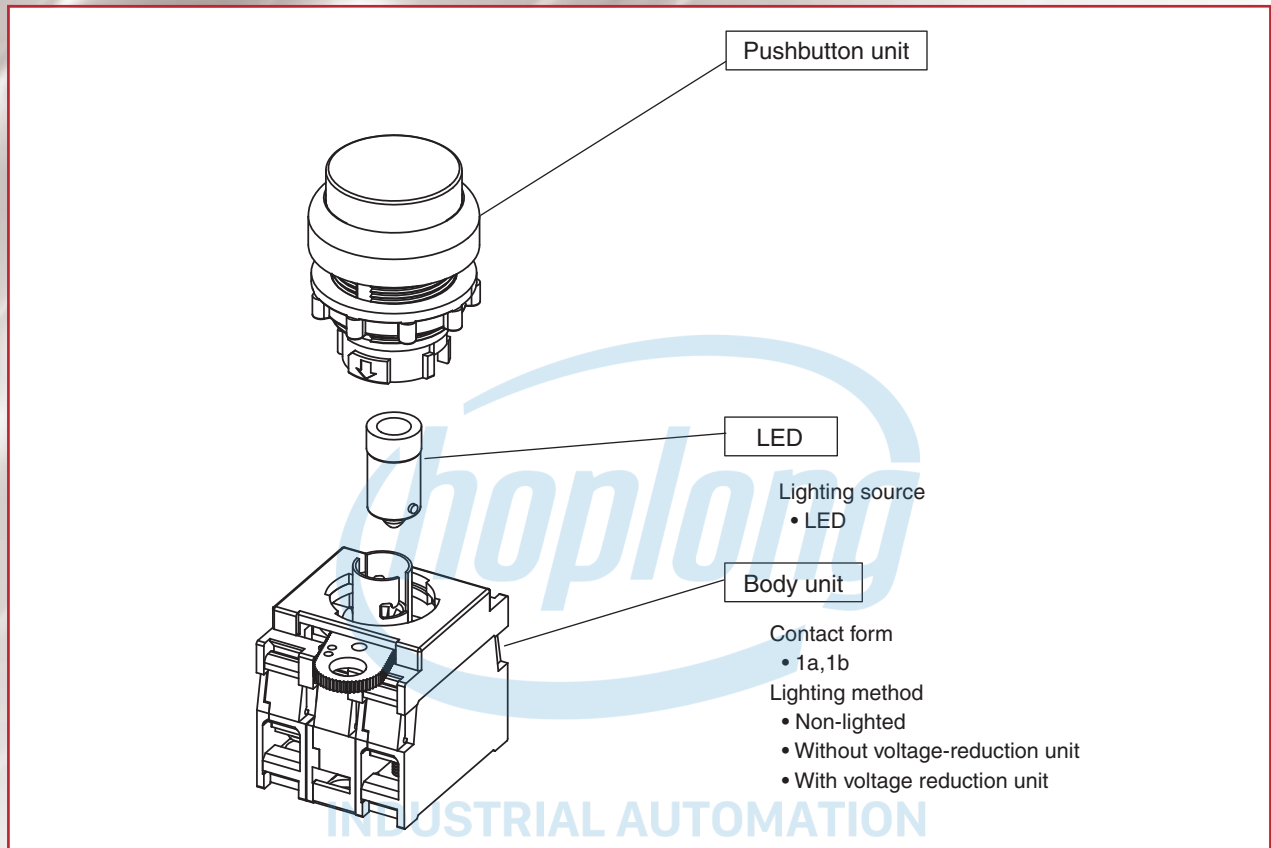
Indicator

● All-in-one type

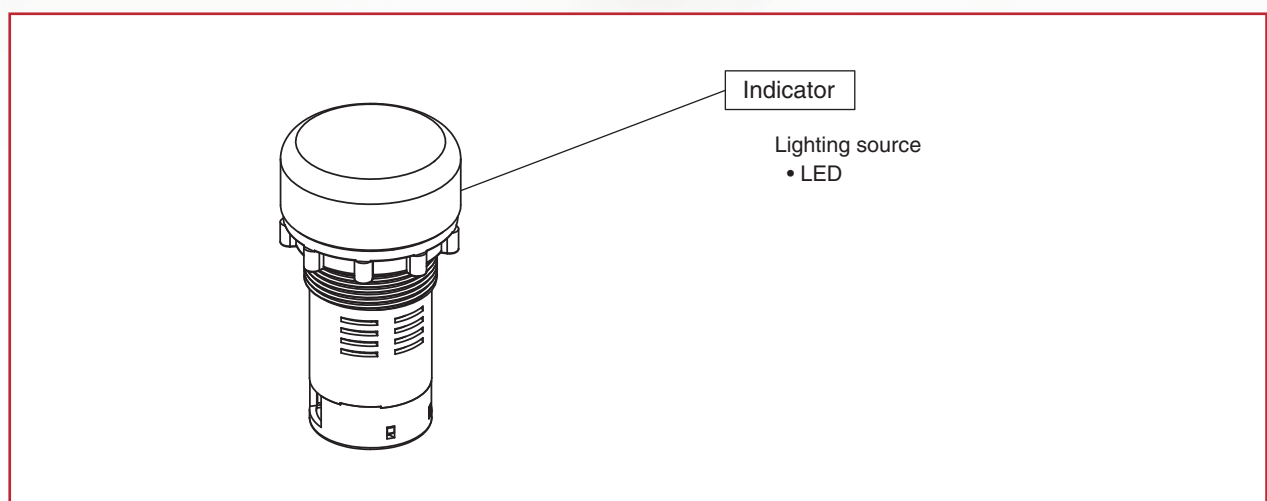
Appearance	LED rating	Indicator color	Part No.	Dimensions
	AC, DC 24V		M22R-EW-24A	
			M22R-EG-24A	
			M22R-ER-24A	
			M22R-EY-24A	
			M22R-EA-24A	
	AC 220V		M22R-EW-T2	
			M22R-EG-T2	
			M22R-ER-T2	
			M22R-EY-T2	
			M22R-EA-T2	

Structure

A22R series





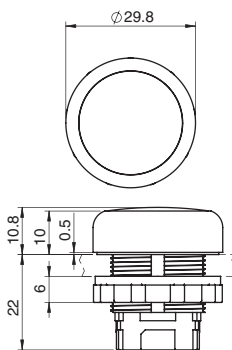







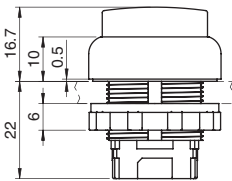







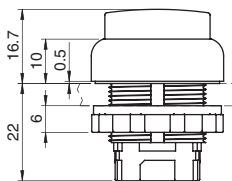




M22R series



Individual Unit

Pushbutton unit




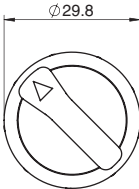





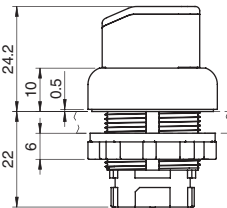





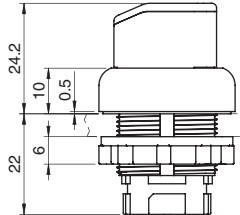

















● Non-lighted/Lighted

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		

Individual Unit

Selector unit




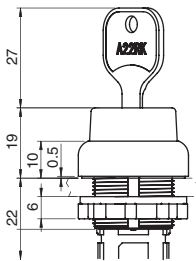







● Non-lighted/Lighted

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


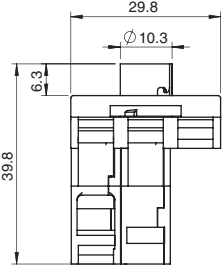
Selector unit

● Key Selector


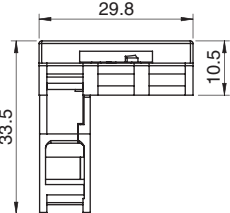
Appearance	Number of notch	Key position	Part No.	Dimensions
	2 notches		A22RK-2ML	 
			A22RK-2M	
			A22RK-2AL	
		○: key release position		
	3 notches		A22RK-3ML	
			A22RK-3M	
			A22RK-3MC	
			A22RK-3AC	
		○: key release position		

Switch unit

● For Lighted type

Appearance	Type	Contact form	Part No.	Dimensions
	Standard	1a	A22RL-10M	
		1b	A22RL-01M	
		2a	A22RL-20M	
		2b	A22RL-02M	
		1a1b	A22RL-11M	
	AC 220V	1a	A22RL-10M-T2	
		1b	A22RL-01M-T2	
		2a	A22RL-20M-T2	
		2b	A22RL-02M-T2	
		1a1b	A22RL-11M-T2	


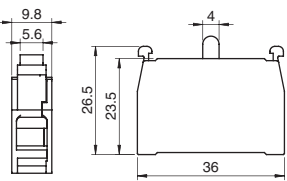
● For Non-lighted type

Appearance	Type	Contact form	Part No.	Dimensions
	Socket	1a	A22R-10M	
		1b	A22R-01M	
		2a	A22R-20M	
		1a1b	A22R-11M	
		2b	A22R-02M	


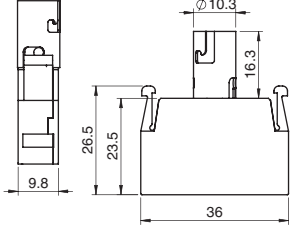
Individual Unit

Switch / Lamp units


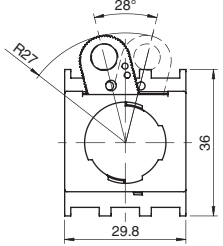
● Switch unit

Appearance	Unit	Contact form	Part No.	Dimensions
	Contact block	1a	A22R-10	
		1b	A22R-01	
		* Additional one block can be mountet to make 2a, 2b, or 1a1b.		

● Lamp socket

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



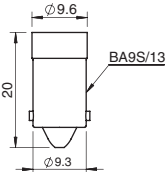














Mounting plate

Appearance	Unit	Part No.	Dimensions
	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	

INDUSTRIAL AUTOMATION

Nomenclature

Nomenclature

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

A 2 2 R □ — □ □ — □ — □ □

① Lighting	② Pushbutton Shape	③ Lighting Color	④ Light Source	⑤ Contact Form	⑥ Switch Operation
Code Lighting	Code Shape	Code Color	Code Operating Voltage	Code Contact Form	Code Switch Operation
Blank Non-lighted	F Flat *	R Red	Blank No light source	10 1a	M Momentary action
L Lighted	T Projection	G Green	6A AC/DC6V	01 1b	A Alternate action
		Y Yellow	12A AC/DC12V	11 1a1b	
		W White	24A AC/DC24V	20 2a	
		A Blue		02 2b	
		B Black *			

* For Non-lighted type only

* For Non-lighted type only

④ Light Source

Code	Operating Voltage
T2	AC220V

● Use AC/DC24V LED

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

A 2 2 R □ — □ □ — □ — □ □

① Lighting	② Number of Notches/Reset Method	③ Lighting Color	④ Light Source	⑤ Contact Form
Code Lighting	Code Specification	Code Color	Code Operating Voltage	Code Contact Form
S Non-lighted	2M 2 notches/Manual	Blank Black*	Blank No-lighted type	10 1a**
W Lighted	2A 2 notches/Automatic	R Red	6A AC/DC6V	01 1b**
	3M 3 notches/Manual	G Green	12A AC/DC12V	11 1a1b
	3A 3 notches/Automatic	Y Yellow	24A AC/DC24V	20 2a
	3MA 3 notches/Manual – left side, Automatic – right side	A Blue		02 2b
	3AM 3 notches/Automatic – left side, Manual – right side			

* Non-lighted type only

④ Light Source

Code	Operating Voltage
T2	AC220V

● Use AC/DC24V LED

** For models with 2 notches

● Completely Assembled A22RK-□-□ Key selector switches

A 2 2 R K — □ — □

① Number of Notches/Reset method	② Contact Form
Code Number of notches, Reset method, Key release position	Code Contact Form
2ML 2 notches, Manual, Left	10 1a**
2M 2 notches, Manual, Left and Right	01 1b**
2AL 2 notches, Automatic, Left	11 1a1b
3ML 3 notches, Manual, Left	20 2a
3M 3 notches, Manual, Left and Right	02 2b
3MC 3 notches, Manual, Center	
3AC 3 notches, Automatic, Center	
3MAL 3 notches, Manual – left, Automatic – right, Left	
3AMR 3 notches, Automatic – left, Manual – right, Right	

** For models with 2 notches

● Completely Assembled M22R-□□-□ Indicator

M 2 2 R — □ □ — □

① Structure	② Lighting Color	③ Light Source
Code Type	Code Lighting Color	Code Operating Voltage
E All-in-one type	R Red	12A AC/DC12V
	G Green	24A AC/DC24V
	Y Yellow	
	W White	
	A Blue	

③ Voltage Reduction Unit

Code	Operating Voltage
T2	AC220V

Individual Unit

Nomenclature

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

A 2 2 R □ — □ □ — □

① Lighting		② Pushbutton Shape		③ Pushbutton Color		④ Switch Operation	
Code	Lighting	Code	Pushbutton Shape	Code	Pushbutton Color	Code	Switch Operation
Blank	Non-lighted	F	Flat*	R	Red	M	Momentary action
L	Lighted	T	Projection	G	Green	A	Alternate action
				Y	Yellow		
				W	White		
				A	Blue		
				B	Black*		

*For Non-lighted type only

*For Non-lighted type only

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

A 2 2 R □ — □ □

① Lighting		② Number of notches, Reset Method		③ Knob Color	
Code	Lighting	Code	Number of notches, Reset Method	Code	Color
S	Non-lighted	2M	2 notches, Manual	Blank	Black*
W	Lighted	2A	2 notches, Automatic	R	Red
		3M	3 notches, Manual	G	Green
		3A	3 notches, Automatic	Y	Yellow
		3MA	3 notches, Manual – left, Automatic – right	A	Blue
		3AM	3 notches, Automatic – left, Manual – right		

*Non-lighted type

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

A 2 2 R K — □

① Number of notches, Reset Method, Key Release Position	
Code	Number of notches, Reset Method, Key Release Position
2ML	2 notches, Manual, Left
2M	2 notches, Manual, Left and Right
2AL	2 notches, Automatic, Left
3ML	3 notches, Manual, Left
3M	3 notches, Manual, Left and Right
3MC	3 notches, Manual, Center
3AC	3 notches, Automatic, Center
3MAL	3 notches, Manual – left, Automatic – right, Left
3AMR	3 notches, Automatic – left, Manual – right, Right

Nomenclature

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	Code	Contact Form	Code	Switch Operation	Code	Operation Voltage
Blank	Non-lighted	10	1a	M	Momentary action	Blank	Non-lighted type
L	Lighted	01	1b			T2	AC220V*
		11	1a1b				
		20	2a				
		02	2b				

*Use with an A22R-24□LED

● Individual unit (Switch block) A22R-□

A 2 2 R — □

① Contact Form	
Code	Contact Form
10	1a
01	1b

● 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*

*Use with an A22R-24□LED

● Individual unit (LED) A22R-□ □ LED




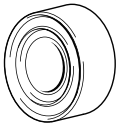

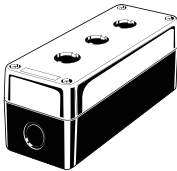

A 2 2 R — □ □

① Operating Voltage		② Lighting color	
Code	Operating Voltage	Code	Lighting color
6A	AC/DC6V	R	Red
12A	AC/DC12V	G	Green
24A	AC/DC24V	Y	Yellow
		W	White
		A	Blue

Accessories / Tools

Items

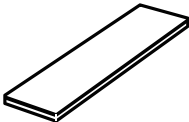
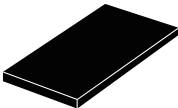
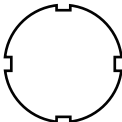
● Accessories

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)	ø7~9	A22Z-3500-1	Plastic connector used to extend a cable from the Switch Box. (See page 30)	
			ø9~11	A22Z-3500-2		


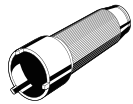
Accessories / Tools

Items

● Accessories

Item		Appearance	Classification		Part No.	Remarks	
Legend Plates	Standard size		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					
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

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

● Lamp unit

UL, cUL	UL 508/CSA C22.2 No.14 File No. E76675 24VAC/DC MAX
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● Voltage-reduction unit

UL, cUL	UL 508/CSA C22.2 No.14 File No. E76675 220VAC
CCC	GB/14048.5-2001 220VAC

● Indicator

UL, cUL	UL 508/CSA C22.2 No.14 File No. E76675 12A: 12VAC/DC 24A: 24VAC/DC T2 : 220VAC
CCC	GB/14048.5-2001 T2 : 220VAC

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 pushbutton and indicator units)

Operating voltage	Current consumption
AC 200V(190 to 230V)	20mA

Characteristics

Characteristics

● Environment

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

*1: With no icing or condensation

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

● Operation

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

● Electrical Characteristics (Switch block)

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

Characteristics

Operating characteristics

● Pushbutton switch (1a1b)

Total Travel Force (TTF)	29.4N Maximum
Total Travel (TT)	5.5mm Maximum

● Knob-type selector switch (1a1b)

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

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

● Key-type selector switch (1a1b)

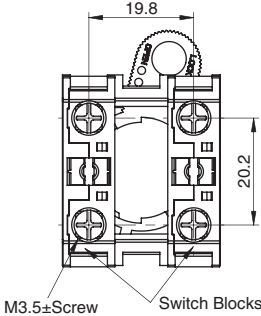
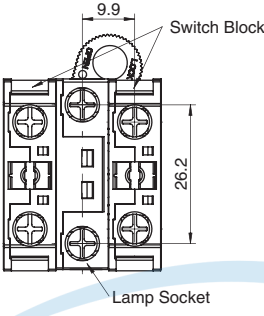
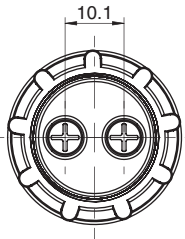
Total Travel Force (TTF)	Manual reset: 0.34N·m Maximum * Auto-reset 2-notch: 0.25N·m * 3-notch: 0.34N·m *
Total Travel (TT)	2-notch: approx. 90 degree (3-notch: approx.45 degree)
Releasing Force (RF)	Manual reset: 0.34N·m Maximum *

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

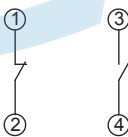
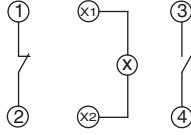
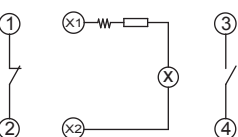
Terminal

Terminal Arrangement

● Bottom view (unit: mm)

No-lighted (1a1b)	Lighted	Indicator
 <p>M3.5±Screw</p> <p>Switch Blocks</p>	 <p>Switch Block</p> <p>Lamp Socket</p>	

Terminal connection

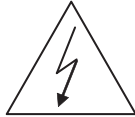
Type	Terminal connection
Non-lighted (1a1b)	<p>BOTTOM VIEW</p> 
Lighted without voltage reduction unit (1a1b)	<p>BOTTOM VIEW</p>  <p>* LED: For AC/DC</p>
Lighted with voltage reduction unit (1a1b)	<p>BOTTOM VIEW</p> 

Precautions

Precautions

Warning

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



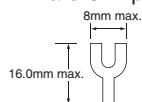
Correct Use

● Mounting

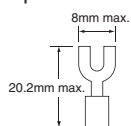
- Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance.
- Do not tighten the mounting ring more than necessary using tools such as pointed-nose pliers. Doing so will damage the mounting ring. The tightening torque is 0.98 to 1.96N-m.
- Recommended panel thickness: 1 to 5 mm.

● Wiring

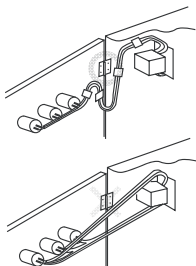
- Terminal screws must be Phillips with a square washer.
- The tightening torque is 1.08 to 1.27N-m.
- Single wires, stranded wires and crimp terminals except round type can be connected to the Switch.
- Applicable Wire Size
 - Strand wire: 2mm² Maximum
 - Solid wire: 1.6mm diameter Maximum
 - Bare Crimp 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.

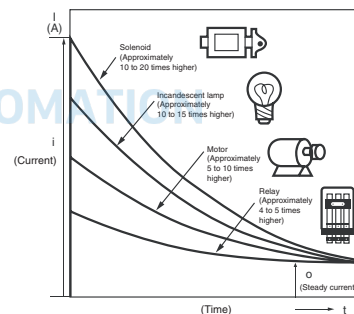


● Operational Environment

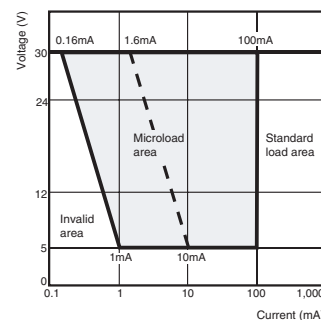
- The IP65 model is designed with a degree of protection so that it will not sustain damage if it is subject to water from any direction to front of the panel.
- This Switch is indoor use only. Outdoor use of the Switch will cause operation failure of the Switch.
- Do not use the Switch in the water, 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

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

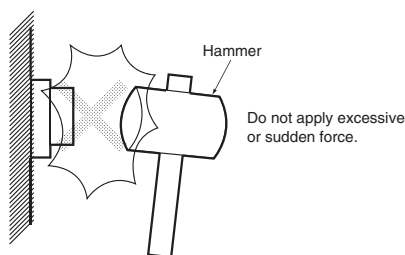
- The LED current-limiting resistor is built-in, so internal resistance is not required.
- If commercially available LEDs are used, select the ones that meet the following conditions:
Base: BA9S/13□
Overall length: 26mm Maximum
Power consumption: 2.6 W Maximum

● Storage

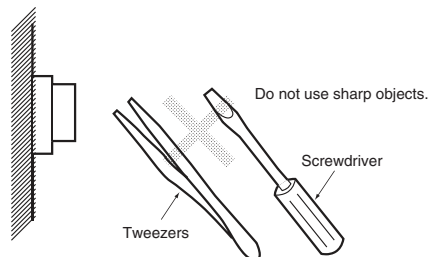
- When the Switch is left unused or stored for long periods, the ambient conditions can have a great effect on the condition of the Switch. In certain environments, leaving the Switch exposed may result in deterioration (i.e., oxidation, or the creation of an oxide film) of the contacts and terminals, 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.



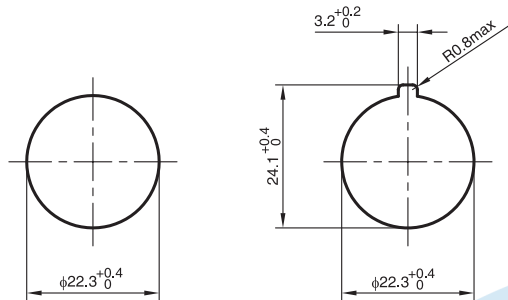
- Periodic maintenance is required to use the Switch stably.

Installation

Mounting to the Panel

① Panel Hole Dimensions

- The cutout dimensions are as shown in below:



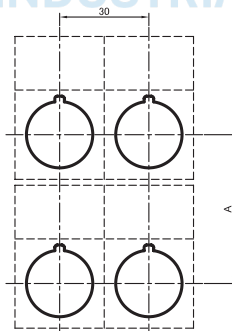
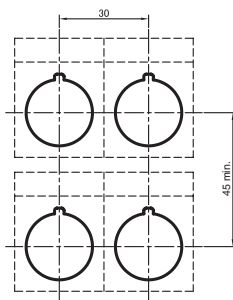
When Lock Ring is not used.

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.

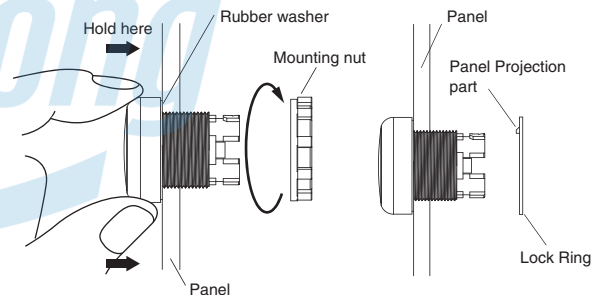


Type of crimp terminal	Dimension A
Bare crimp terminals	51 mm Minimum
Crimp terminals with insulating sheath	60 mm Minimum

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.

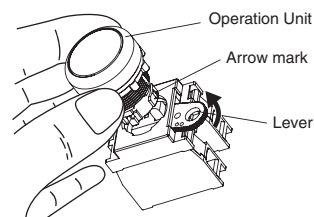
③ Mounting the Operation Unit on the Panel

- 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.



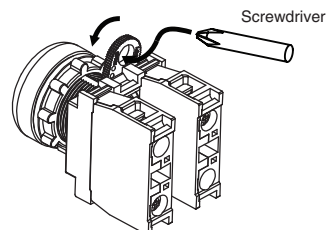
④ Mounting the Switch on the Pushbutton Unit

- 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.

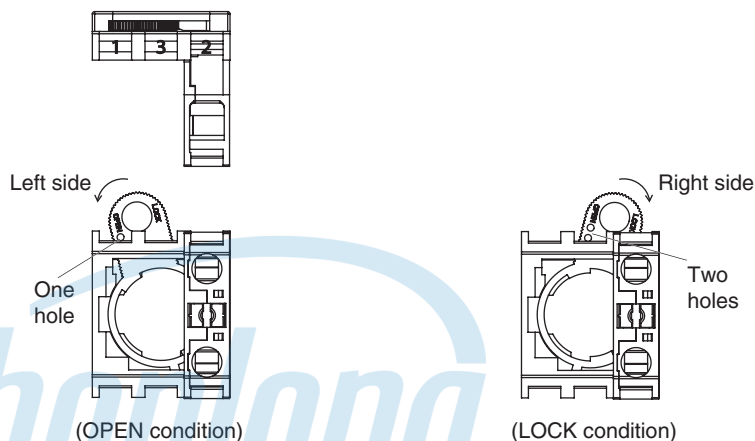


Installation

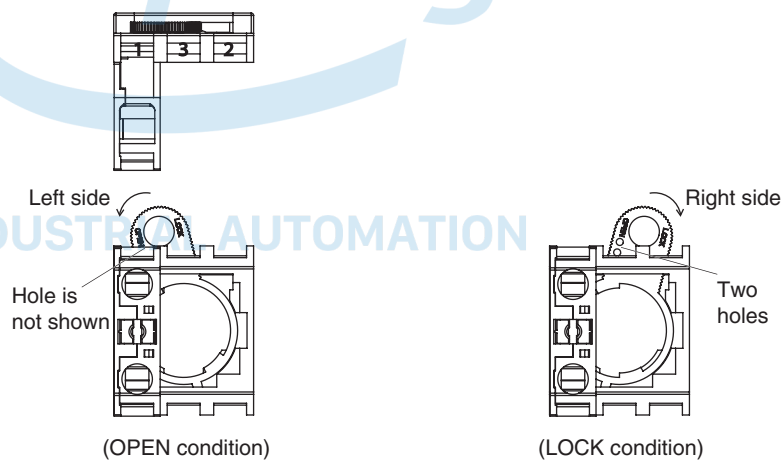
How to confirm the Lever Position, OPEN or LOCK

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

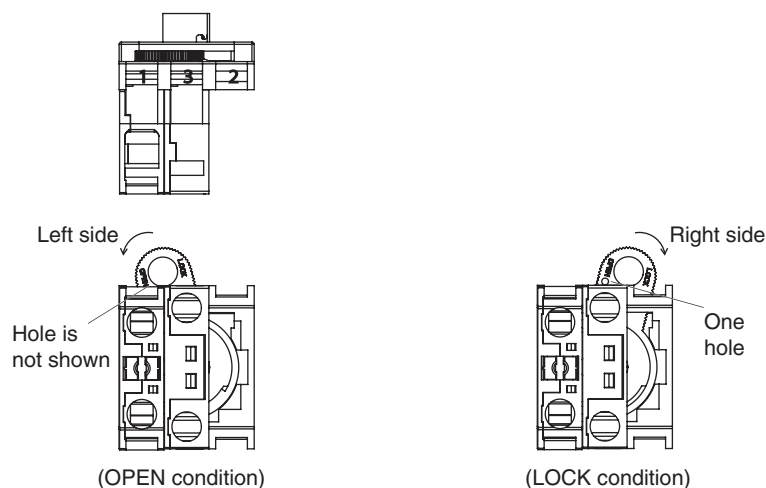
In case that no switch block is mounted on the mounting plate No.1.



In case that a switch block is mounted on the mounting plate No.1.



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.

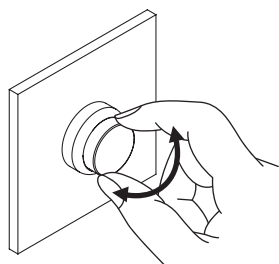


Installation

Mounting/Replacing the Color Cap

Projection type

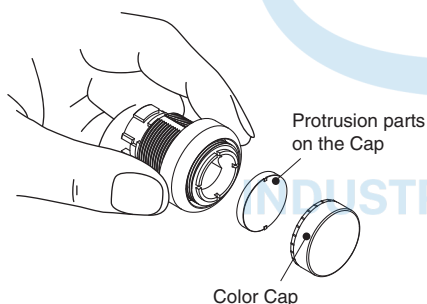
- Grip and rotate the Color Cap with your fingers.



Assembling the Cap

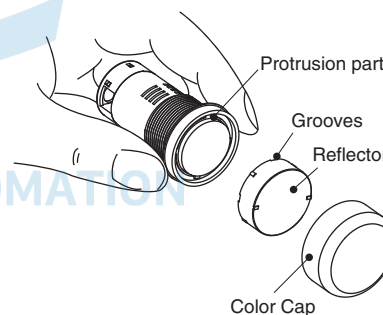
① Projection type Lighted Pushbutton Switch

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



② Indicator

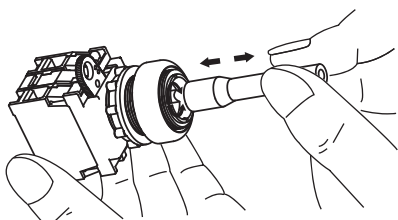
- Mount the Color Cap so that the protrusions inside the Pushbutton Unit fit into the grooves in the cap.



Installing/Replacing the LED

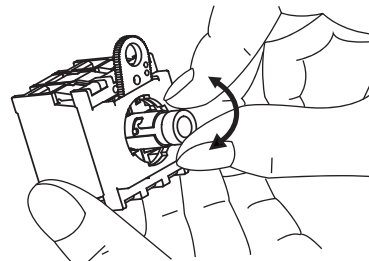
① Installing/Replacing from the Panel Surface

- 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.

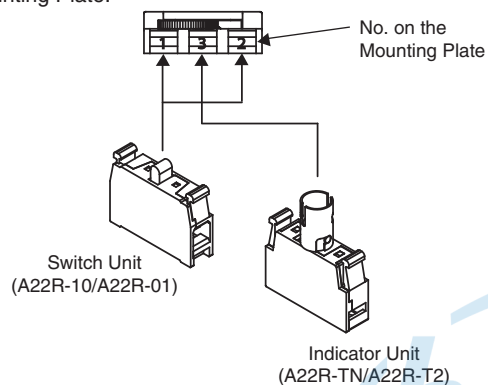


Installation

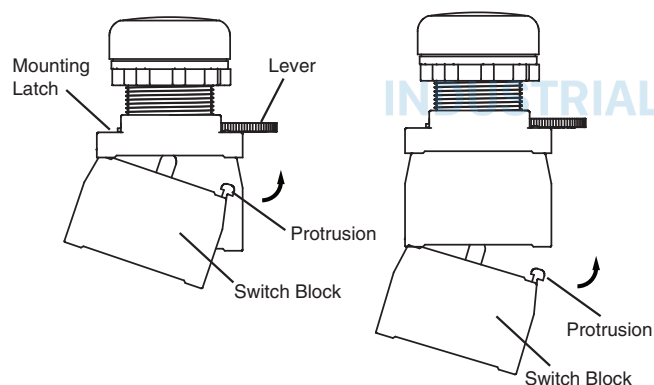
Mounting/Replacing the Switch Unit and Indicator Unit

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.

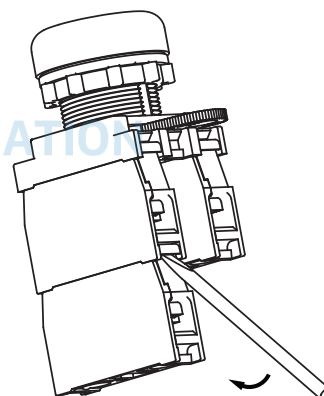
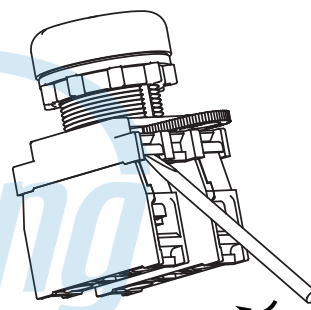
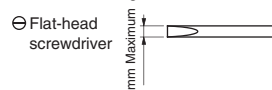


Note: In case that two Switch Block are mounted, a Control Box cannot be used.

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.

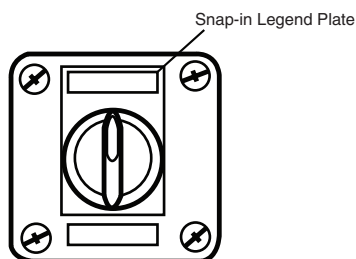


Installation

Control Box

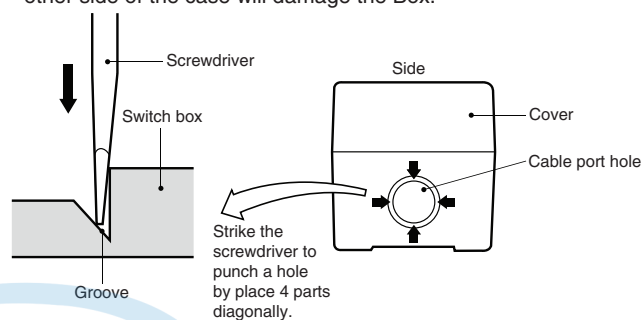
① Mounting the Switch

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



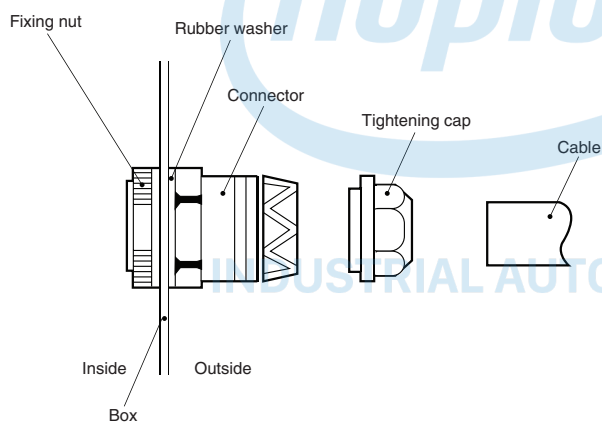
② Creating a Cable Port Hole

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.



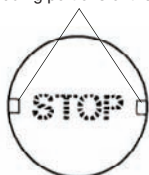
Cable diameter (mm)	Connector
7 to 9 mm dia.	A22Z-3500-1
9 to 11 mm dia.	A22Z-3500-2

Installation

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

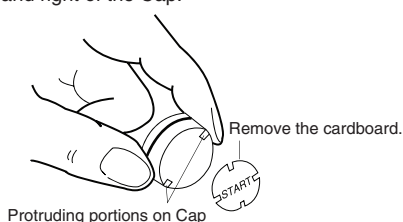


Material: Acrylic

- 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.

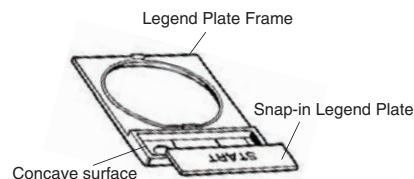
Affixing Character Film

- 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

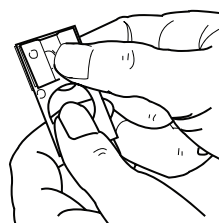
- Press and secure the Snap-in Legend Plate onto the Legend Plate Frame.
- The direction of the characters will vary with the mounting direction of the control panel if the Switch is a knob or key selector model.



- 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.

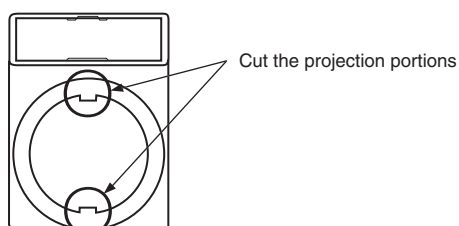


- The Snap-in Legend Plate is easily removed by pressing the Snap-in Legend Plate from the back of the Legend Plate Frame.
- The Legend Plate Frame is made of acrylic resin, which is easily damaged by shock. Be sure to handle the Legend Plate Frame with care.

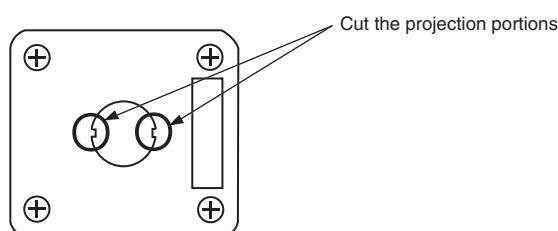


Precautions when use the Indicators

- 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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