

Specifications Common to All

A22/M22

The Following Pages Provide Information Common To Each Model of The A22/M22 Pushbutton Switch

- A22
- A22S/W
- A22K
- M22

Specifications

APPROVED STANDARDS

Recognized organization	Standards	File No.
UL, cUL (See note)	UL508	E41515
ASTA	EN60947-5-1	

Note: UL: CSA C22 No. 14

RATINGS

Contacts (General-purpose Load)

Rated carry Rated current voltage	Rated current (A)						
	Utilization category	Utilization category					
		AC15 (inductive load)	AC12 (resistive load)	DC13 (inductive load)	DC12 (resistive load)		
10 amps	24 VAC	10	10	—	_		
	110 VAC	5	10				
	220 VAC	3	6				
380 VAC	2	3					
	440 VAC	1	2				
	24 VDC			1.5	10		
	110 VDC			0.5	2		
	220 VDC			0.2	0.6		
	380 VDC			0.1	0.2		

Note: 1. Rated current values are determined according to the testing conditions specified by JIS C4520. The above ratings were obtained by conducting tests under the following conditions as specified by JIS C4505.

(1) Ambient temperature: 20°±2°C

(2) Ambient humidity: 65±5%

(3) Operating frequency: 20 operations/min

2. Minimum applied load: 10 mA, 5 VDC

Contacts (Microload)

Rated applied load	Minimum applied load
50 mA, 5 VDC (Resistive load)	1 mA, 5 VDC

LED Indicators without Transformer

Rated voltage	Rated current	Operating voltage
6 VDC	60 mA	6 VDC±5%
6 VAC	60 mA	6 VAC/DC±5%
12 VAC/DC	30 mA	12 VAC/DC±5%
24 VAC/DC	15 mA	24 VAC/DC±5%

Incandescent Lamp

Rated voltage	Rated current	Operating voltage
6 VDC	200 mA	5 V
14 VAC/DC	80 mA	12 V
28 VAC/DC	40 mA	24 V
130 VAC/DC	20 mA	100 V

Transformer Lighting

Rated voltage	Operational voltage	Applicable lamp (BA8S/13 gold)
110 VAC	95 to 115 VAC	LED Lamp (A22-24A)
220 VAC	190 to 230 VAC	

■ CHARACTERISTICS

Item		Pushbutton swit	ches	Emergency sto	o switches	Knob-type selec	ctor switches	Key-type selector switch
		Non-illuminated models: A22-F, A22-T, A22-G, A22-S, A22-C, A22-D, A22-H, A22-M	Illuminated models: A22L-T, A22L-G, A22L-G, A22L-D, A22L-C	Non-illuminated models: A22E	Illuminated models: A22EL	Non-illuminated models: A22S	Illuminated models: A22W	Non-illuminated models: A22K
Allowable operating	Mechanical	Momentary ope 60 operations/m		30 operations/m	nin max.	Manual release Automatic relea		
frequency	Electrical	30 operations/m	nin max.			30 operations/m	nin max.	
Insulation re	sistance	100 M Ω min. (at	t 500 VDC)					
Dielectric str	rength	2,500 VAC, 50/6 2,500 VAC, 50/6 ground	60 Hz for 1 mii 60 Hz for 1 mii	n between termin n between termin	als of same po als of different	plarity polarity and also	between eac	h terminal and
Vibration res (See note 2)		Malfunction: 10	to 55 Hz, 1.5-	mm double ampl	itude (malfunc	tion within 1 ms)		
Shock resistance	Mechanical	1,000 m/s ² {100G}	1,000 m/s ² {100G}	1,000 m/s ² {100)G}	1,000 m/s ² {100G}	1,000 m/s ² {100G}	1,000 m/s ² {100G}
	Malfunction (See note 2)	1,000 m/s ² {100G} max.	600 m/s ² {60G} max.	250 m/s ² {25G}	max.	1,000 m/s ² {100G} max.	600 m/s ² {60G} max.	1,000 m/s ² {100G} max.
Life expectancy	Mechanical	Momentary ope 5,000,000 opera	ration: ations min.	Momentary ope 300,000 operati		500,000 operations min.	100,000 operations min.	500,000 operations min.
	Electrical	500,000 operati	ons min.	300,000 operations min.	300,000 operations min.	500,000 operations min.	100,000 operations min.	500,000 operations min.
Ambient temperature (See note 1)		Operating: -20°C to 70°C (-4°F to 158°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 55°C (-4°F to 131°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 70°C (-4°F to 158°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 55°C (-4°F to 131°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 70°C (-4°F to 158°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 55°C (-4°F to 131°F) Storage: -40°C to 70°C (-40°F to 158°F)	Operating: -20°C to 70°C (-4°F to 158°F) Storage: -40°C to 70°C (-40°F to 158°F)
Ambient humidity O		Operating: 35% to 85%						
Degree of p	rotection	IP65						
Electric shoo	ck protection	Class II						
Degree of co	ontamination	3 (IEC947-5-1)						

Note: 1. With no icing or condensation.

2. Malfunction within 1 ms.

■ OPERATING CHARACTERISTICS (FOR SPST-NO/SPST-NC)

Item	Pushbutton switches	Emergency stop switches	Knob-type selector switch		Key-type selector	switch
	Illuminated Non-illuminated Pushbutton Switches	Push-lock turn-reset system	Manual release	Automatic release	Manual release	Automatic release
	A22-F, A22-G, A22-C, A22-S, A22-T, A22-H, A22-D, A22-M, A22L-T, A22L-H, A22L-D, A22L-G, A22L-C	A22E	A22S, A22W	A22S, A22W	A22K	
Total travel force (TTF) max.	29.4 N {3.0 kgf}	44.1 N {4.5 kgf}	0.34 N • m {3.5 kgf • cm} (See note)	0.25 N • m {2.5 kgf • cm} for two position (See note)	0.34 N {3.5 gf} (See note)	0.25 N • m {2.5 kgf • cm} for three position (See note)
				0.34 N • m {3.5 kgf • cm} for three position		0.34 N • m {3.5 kgf • cm} for three position
Total travel (TT)	5.5 mm max.	10±1 mm	Approx. 90° for tw (Approx. 45° for th		Approx. 90° for tw	o position
Releasing force (RF) min.		0.25 N • m max. {2.5 kgf • cm} (See note)	0.34 N • m max. {3.5 kgf • cm} (See note)		0.34 N • m max. {3.5 kgf • cm} (See note)	_

Note: Rotation torque for Emergency Stop Pushbutton, Knob-type Selector, and Key-type Selector Switches.

Accessories (Order Separately)

Item		Appearance	Classification		Remarks	Part number
Contact B	Blocks		SPST-NO	General-pur- pose load	Provided as standard. Order Contact Blocks only when	A22-10
				Microload	adding or replacing them.	A22-10S
			SPST-NC	General-pur- pose load		A22-01
		omos TT		Microload]	A22-01S
			DPST-NO	General-pur- pose load		A22-20
				Microload]	A22-20S
			DPST-NC	General-pur- pose load		A22-02
				Microload		A22-02S
Lamp Soc	ckets		Direct lighting		Used when changing the light-	A22-TN
			Transformer	110 VAC	ing method.	A22-T1
			illumination	220 VAC		A22-T2
Mounting	Latches	đ	For momentary models		Provided as standard. Order Mounting Latches only when mounting Contact Blocks or Lamp Sockets that are pur- chased individually.	A22-3200
Legend	Standard		With Snap-in	White	Snap-in Legend Plate is acrylic.	A22Z-3321
olate frames	size		Legend Plate (Without text)	Red	1	A22Z-3322
anes				Black	1	A22Z-3323
			Without Snap-	in Legend Plate]	A22Z-3320
	Large		With Snap-in	White]	A22Z-3331
	size		Legend Plate (Without text)	Red		A22Z-3332
				Black		A22Z-3333
			Without Snap-	in Legend Plate		A22Z-3330

(This table continues on the next page.)

(continued from previous page)

Item		Appearance	Classification		Remarks	Part number
Lock fitting			Round		The body is equipped with a Lock Fitting. This Lock Fitting is used when a more secure lock feature is required.	A22Z-3360
Metallic bezel rings			For flush or pro	ojection models	Replace with the standard model.	A22Z-3580
			For full-guard r	nodels	Material: nickel-plated zinc	A22Z-3582
Sealing ca	ps		For flush mode	els	Used to prevent dust or water from entering the Operational	A22Z-3600F
			For extended r	nodels	Unit. Color: opaque	A22Z-3600T
			For full-guard r	nodels	Material: silicon	A22Z-3600G
Color lense	es		Red		Used for changing the Opera- tional Unit color of the Pushbut-	A22Z-30TR
			Green		ton Switch.	A22Z-30TG
		K. Z	Yellow			A22Z-30TY
			White			A22Z-30TW
			Blue			A22Z-30TA
Three-throw	w spacers	He	For Pushbutto	n Switches	Used when mounting three Non- Illuminated Switch Units. Cannot be used with Illuminated Emergency Stop Switches.	A22Z-3003
Hole plug			Round		Can be plugged into pre-cut panel holes for future expan- sion. The color is black.	A22Z-3550
25 mm-dia	. ring	0	25 mm ring		Can be fit into a 25 mm-dia. hole in the panel. Since this is not attached to the main body, order separately.	A22Z-R25
Snap-in	Standard		Without text	Black	Attached to the Standard-size	A22Z-3443B
legend	size			Red	Legend Plate Frame.	A22Z-3443R
plates				White	Material: Acrylic	A22Z-3443W
				Transparent	1	A22Z-3443C
			White text on	0		A22Z-3443R-2
		\sim	red back- ground	STOP		A22Z-3443R-4
			White text on			A22Z-3443B-1
			black back-	START		A22Z-3443B-3
			ground	ON	1	A22Z-3443B-5
				OFF	1	A22Z-3443B-6
				UP	1	A22Z-3443B-0 A22Z-3443B-7
				DOWN	1	A22Z-3443B-7 A22Z-3443B-8
				POWER ON	1	A22Z-3443B-8 A22Z-3443B-9
				OFF-ON	1	A22Z-3443B-9 A22Z-3443B-10
	Large		Without text	Black	Attached to the Large-size Leg-	A22Z-3443B-10 A22Z-3453B
	size		without text		end Plate Frame	
				Red	Material: Acrylic	A22Z-3453R
				White	<i>,</i>	A22Z-3453W
For Emer- gency Stop Switch		Sterroer Co	60-dia. round p letters on a ye ground	Transparent Date with black llow back-	"EMERGENCY STOP" is engraved on the plate. Used as an Emergency Stop Switch Legend Plate.	A22Z-3453C A22Z-3466-1
		STOP	90-dia. round p letters on a yel ground	blate with black llow back-		A22Z-3476-1

(This table continues on the next page.)

(continued from previous page)

Item	Appearance	Classification		Remarks	Part number
Character films		No print (Roun	ıd)	After printing on a film, affix to	A22Z-3460
		Character		the indicator plate of the Illumi- nated Pushbutton Switch. (The	A22Z-3460-1
		print (Round)	0	back is coated with adhesive.)	A22Z-3460-2
			START	, ,	A22Z-3460-3
			STOP		A22Z-3460-4
		No print (Squa	ire)		A22Z-3480
Lamp extractor	5	—		Rubber tool used to easily replace Lamps.	A22Z-3901
Tightening wrench		_		Tool used to tighten nuts from the back of the panel.	A22Z-3905
Lens tightening tool		—		Used for replacing the cap of the Half-guard Pushbutton Switch.	A22Z-3908
Lens puller		—		Used for removing the lens from the indicator of the Square Illuminated Pushbutton Switch.	A3PJ-5080

ENCLOSURES

Material	Hole size	Number of holes	Part number
Polyester	22.5 mm (0.88 in)	1	A22N-PENC-1
		2	A22N-PENC-2
		3	A22N-PENC-3
Metallic	22.5 mm (0.88 in)	1	A22N-MENC-1
		2	A22N-MENC-2
		3	A22N-MENC-3
		4	A22N-MENC-4
		6	A22N-MENC-6
		9	A22N-MENC-9
		12	A22N-MENC-12
		16	A22N-MENC-16

Note: For more information on pushbutton enclosures refer to drawings in the Dimensions section.



All plastic name plates are adhesive backed, contain beveled edges and are supplied standard with white lettering on black back-Note: ground. Any deviation from items listed here will be a special order. Contact Omron.

Dimensions

Unit: mm (inch)



PLASTIC RECTANGULAR AND SHIELD



Note: Curved dashed line denotes difference between Rectangular and Rectangular to Round name plates.



METAL RECTANGULAR

A22N-MR



■ 60MM EMERGENCY STOP

A22PE190



■ 90MM EMERGENCY STOP

A22N-PE191



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SEALING CAPS For Flush Models A22Z-3600F





For Full-guard Models A22Z-3600G





■ 25 MM-DIA. RING A22Z-R25





■ HOLE PLUG (ROUND) A22Z-3530





For Extended Head Models A22Z-3600T





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Unit: mm (inch)



■ TIGHTENING WRENCH

A22Z-3905





■ LENS TIGHTENING TOOL

A22Z-3908





■ LENS PULLER







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ENCLOSURES (POLYESTER)

A22N-PENC-



22.5mm Hole





Hole Placement



	Overall Dimensions			Inside Dimensions							No. of	Hole
Part No.	А	В	С	D	Е	F	J	к	L	М	Holes	Size
A22N-PENC-1	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	1	22.5
A22N-PENC-2	6.74	3.93	3.88	6.01	3.26	3.63	5.99	3.18	4.88	2.94	2	22.5
A22N-PENC-3	8.99	3.93	3.88	8.26	3.26	3.63	8.24	3.18	7.13	2.94	3	22.5

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ENCLOSURES (METALLIC)

A22N-MENC-





Side View

Body Type MENC-6 through MENC-16 (hinged)









Typical Pushbutton Detail

Hinge Detail

Retractable pin allows door to be mounted on left or right side

Part No.	No. of		В	С	D	E	F		Overall Dimensions			Ship
	Holes							G	L	W	Z	Wt. Ibs.
A22N-MENC-1	1	3.25	2.75	3.50	1.88	3.75	1.71	2.50	4.25	3.06	3.56	2
A22N-MENC-2	2	5.13	2.75	3.50	1.88	5.63	1.71	4.38	6.13	3.06	5.44	3
A22N-MENC-3	3	7.00	2.75	3.50	1.88	7.50	1.71	6.25	8.00	3.06	7.31	3
A22N-MENC-4	4	8.88	2.75	3.50	1.88	9.38	1.71	8.13	9.88	3.06	9.19	4
A22N-MENC-6	6	8.50	5.00	4.25	4.13	9.00	3.96	7.75	9.50	5.31	8.81	5
A22N-MENC-9	9	8.50	6.50	4.25	5.63	9.00	5.46	7.75	9.50	6.81	8.81	6
A22N-MENC-12	12	10.38	6.50	4.25	5.63	10.88	5.46	9.36	11.38	6.81	10.69	6
A22N-MENC-16	16	10.38	8.00	4.25	7.13	10.88	6.96	9.63	11.38	8.31	10.69	7

Installation

MOUNTING THE PANEL

Panel Hole Dimensions



For 25 mm-dia. holes, always use 25 mm-dia. Rings. (Since the cutout dimensions are large, IP65 cannot be guaranteed unless 25-dia. Rings are used.)

If outer surface treatment such as paint is applied to the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

MATRIX INSTALLATION

 The following panel hole dimensions apply when Switch Units and the Standard-size Legend Plate Frame Lock Fitting are mounted.



2. The following panel hole dimensions apply when the Large-size Legend Plate Frame is mounted.



Locking should be applied toward the Engraving Plate.

Note: The above dimensions are the smallest-possible mounting dimensions. However, these dimensions do not apply to large Pushbutton Switches. For large Pushbutton Switches, determine the distance between holes, taking the Operational Unit and Legend Plate Frame into account.

MOUNTING THE OPERATIONAL UNIT ON THE PANEL

Insert the Operational Unit from the front surface of the panel, insert the Lock Fitting and the mounting nut from the terminal side, then tighten the nut. Before tightening, check that the rubber washer is present between the Operational 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 Operational Unit and the Legend Plate Frame. (One rubber washer will be provided when one Legend Plate Frame is ordered.)

Align the Lock Fitting with the groove in the casing, then insert the Lock Fitting so that its edge is located on the panel side.

Tighten the mounting nut at a torque of 0.98 to 1.96 N \cdot m {10 to 20 kgf \cdot cm}.

When using a Lock Ring, replace with the supplied Lock Fitting, insert the projecting part into the lock slot, and then tighten the mounting nut.



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



45 (1.77)

MOUNTING THE SWITCH ON THE OPERATIONAL UNIT

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



■ REMOVING THE SWITCH

Move the lever in the direction indicated by the arrow in the following figure, then pull the Operational Unit or the Switch Unit.

Since the lever has a hole with an inside diameter of 6.5 mm, the lever can be moved in the specified direction by inserting a screwdriver into the hole and then moving the screwdriver.



MOUNTING/REPLACING THE COLOR LENS

Projection, Full-guard

Grip and rotate the Color Lens with your fingers.



Half-guard Indicators

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



■ ASSEMBLING THE CAP

Lighted Pushbutton Switch

Mount the Color Lens so that the protrusions inside the cap fit into the grooves in the Operational Unit.



Indicator

Mount the Color Lens so that the protrusions inside the Operational Unit fit into the grooves in the cap.



Square Pushbutton/Indicator

Removing the Color Lens:

Insert the protruding tip of the Lens Puller (A3PJ-5080) into the lens slot, hold the plate spring, and pull them to remove the Color Lens.



Mounting the Color Lens:

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

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



Color Lens

■ EMERGENCY STOP SWITCH

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



■ INSTALLING/REPLACING THE LAMP

Installing from the Panel Surface

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



Installing/Replacing on the Switch Unit

Grip the indicator with your fingers, then rotate the indicator while pressing it against the Switch Unit.



CONTROL BOX (ENCLOSURE)

Mounting the Switch

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



INSTALLING/REMOVING THE SWITCH UNIT

Installing the Switch Unit

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



Removing the Switch Unit

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





WIRING

Wiring Round Crimp Terminals

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



Engrave the characters on the surface on the Cap. Make sure that the characters are aligned parallel to the imaginary line connecting the two protruding portions to the left and right of the Cap.

The characters must not be engraved deeper than 0.5 mm. Apply an alcohol-based paint coating, such as melamine, alkyd, or acrylic resin paint coating, to the engraved characters.

Protruding portions on Cap



AFFIXING CHARACTER FILM

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

Do not apply a voltage between the incandescent lamp and the terminal that is greater than the rated voltage. If the incandescent lamp is broken, the Operational Units may pop out.

Always turn OFF the power and wait for 10 minutes before replacing the incandescent lamp. If the lamp is replaced immediately after the power is turned OFF, the remaining heat may cause burns.

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 1.96 N • m {10 to 20 kgf • cm}.

The panel thickness is 1 to 5 mm.

ENGRAVING METHOD

Material: Acrylic

Engrave the characters directly on the matted side of the Snap-in Legend Plate.

The characters must be engraved no deeper than 0.5 mm.

Apply alcohol-based paint coating to the engraved characters.

If the Snap-in Legend Plate is transparent, engrave the mirror-written characters on the back of the Snap-in Legend Plate and apply paint coating to the characters. Then apply paint coating of a different color to the remaining part of the Snap-in Legend Plate.

■ MOUNTING THREE-THROW SPACER

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



Wiring

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

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

Terminal screws must be Phillips or slotted M3.5 screws with a square washer.

The tightening torque is 1.08 to 1.27 N • m {11 to 13 kgf • cm}.

Single wires, stranded wires, and crimp terminals can be connected to the Switch.

Operating Environment

The IP65 model is designed with a protective structure so that it will not sustain damage if it is subjected to water from any direction to the front of the panel.

Using the Microload

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

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

The equation, $\lambda 60 = 0.5 \times 10^{-4}$ /time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



LEDs

The LED current-limiting resistor is built-in, so internal resistance is not required.

If commercially available LEDs are used, select the ones that meet the following conditions:

Base: BA9S/13

Overall length: 26 mm max.

Power consumption: 2.6 W max.

Others

The oil-resistant IP65 uses NBR rubber and is resistant to general cutting oil and cooling oil. Some particular oils cannot be used with the oil-resistant IP65, however, so contact your OMRON representative for details.

If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after the coating.

Do not subject the Switch to extreme shock or vibration. Doing so will cause malfunctions and damage to the Switch.

Do not let sharp objects come into contact with the Switches that are made of resin. Doing so will damage the Switches, causing scratches on the outside of the Operational Units, and malfunction.

When handling the Switches, do not throw or drop them.





Do not place or drop heavy objects on the Switch.



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



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