Emergency Stop Switch (22-dia./25-dia.) A 22 E

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

- Direct opening mechanism to open the circuit when the contact welds \ominus .
- Safety lock mechanism prevents operating errors.
- Easy mounting and removal of Switch Blocks using a lever.
- Mount three Switch Units in series to improve wiring efficiency (with non-lighted Switch Units, three Units can be mounted for multiple contacts).
- Finger protection mechanism on Switch Unit provided as a standard feature.
- Install using either round, or forked crimp terminals.
- Oil-resistant to IP65 (non-lighted models)/IP65 (lighted models)
- A lock plate is provided as a standard feature to ensure that the control box and switch are not easily separated.

Be sure to read the precautions for all pushbutton switches ⚠ in the Pushbutton Switches Group Catalog (Cat. No. X032), as well as the "Safety Precautions" on page 16.

Model Number Structure



Model Number Legend (Completely Assembled)...... Shipped as a set which includes the Operation Unit, Lamp (lighted models only), and Switch. 4

l. Light	ed/Non-ligi	nted	3. Light	Source ut Voltage Rec	luction Unit	4. Cont	acts	5. Conf	iguration
Code	Descri	iption				Code	Description	Code	Configuration
None	Non-lighte	d	Code	Description	Operating Voltage	01	SPST-NC	None	Switch only
L	Lighted *		None	Non-lighted		11	SPST-NO + SPST-NC	В	Switch with Integrated
			6A	LED	6 VAC/VDC	02	DPST-NC		Control Box
	ed Emergen hes are ava		12A		12 VAC/VDC				
for the	e medium (N	vI).	24A		24 VAC/VDC	12	DPST-NC + SPST-NO		
push-	lock turn-re	set models.		(II		03	TPST-NC		
				oltage Reduc					
. Head	Size		Code	Description	Operating Voltage				
Code	Size	Description	T1	LED	100 VAC				
MP	Medium 40 dia.	Duch null	T2		200 VAC				
LP	Large 60 dia.	- Push-pull	Equipp	ed with 24-VA	C/DC LED.				
S	Small 30 dia.		-						
Μ	Medium 40 dia.	Push-lock turn-reset							
L	Large 60 dia.								
SK	Small 30 dia.	Buch look koy recet	-						
MK	Medium 40 dia.	Push-lock key reset							

1

2

3

Ordering Information

List of Models (Completely Assembled) Non-lighted Models

Operating		Set Model	Color of cap
Appearance	Contact Configuration	Set Model	
40-dia. head Medium Push-pull	SPST-NC	A22E-MP-01	
A22E-MP	SPST-NO/SPST-NC	A22E-MP-11	
	DPST-NC	A22E-MP-02	
60-dia. head Large Push-pull	SPST-NC	A22E-LP-01	
A22E-LP	SPST-NO/SPST-NC	A22E-LP-11	
	DPST-NC	A22E-LP-02	
30-dia. head	SPST-NC	A22E-S-01 *	
Small Push-lock Turn-reset	SPST-NO/SPST-NC	A22E-S-11 *	
A22E-S	DPST-NC	A22E-S-02 *	
	DPST-NC + SPST-NO	A22E-S12 *	
	TPST-NC	A22E-S-03 *	
40-dia. head Medium Push-lock Turn-reset	SPST-NC	A22E-M-01 *	
A22E-M	SPST-NO/SPST-NC	A22E-M-11 *	
C	DPST-NC	A22E-M-02 *	Red
	DPST-NC + SPST-NO	A22E-M-12 *	
	TPST-NC	A22E-M-03 *	
60-dia. head Large Push-lock Turn-reset	SPST-NC	A22E-L-01 *	
A22E-L	SPST-NO/SPST-NC	A22E-L-11 *	
	DPST-NC	A22E-L-02 *	
30-dia. head Small Push-lock Key-reset	SPST-NC	A22E-SK-01	
A22E-SK	SPST-NO/SPST-NC	A22E-SK-11	
	DPST-NC	A22E-SK-02	
40-dia. head Medium Push-lock	SPST-NC	A22E-MK-01	
Key-reset	SPST-NO/SPST-NC	A22E-MK-11	
422E-MK	DPST-NC	A22E-MK-02	

* Models with Korean S-mark certification.

Note: 1. Yellow cap models are also available (not for emergency stop use). Contact your OMRON representative.
2. The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.)

With EMO/EMS Indication (non-lighted)

0	perating	Set Model	Color of cap		
Appearance		Contact Configuration	Set Model		
40-dia. head Medium Push-lock Turn-reset		SPST-NC	A22E-M-01-EMO *		
With EMO Indication		SPST-NO/SPST-NC	A22E-M-11-EMO *	-	
	CEMO CHAN	DPST-NC	A22E-M-02-EMO *		
		DPST-NC + SPST-NO	A22E-M-12-EMO *		
		TPST-NC	A22E-M-03-EMO *	Red	
40-dia. head Medium Push-lock Turn-reset	SI	SPST-NC	A22E-M-01-EMS *		
With EMS Indication		SPST-NO/SPST-NC	A22E-M-11-EMS *		
		DPST-NC	A22E-M-02-EMS *		
		DPST-NC + SPST-NO	A22E-M-12-EMS *		
		TPST-NC	A22E-M-03-EMS *		

* Models with Korean S-mark certification.

Note: The colors of switch blocks are the followings: SPST-NO: black SPST-NC: red

The above illustration shows the DPST-NC classification.

Lighted Models

•		Operating		Push-lock turn-reset system	Color of cap
Appearance	Contact configuration	Lighting	Rated voltage	Set Model	
40-dia. head			6 VAC/VDC	A22EL-M-6A-01 *	
Push-lock Turn-reset without Voltage	SPST-NC		12 VAC/VDC	A22EL-M-12A-01 *	
Reduction Unit A22E			24 VAC/VDC	A22EL-M-24A-01 *	
			6 VAC/VDC	A22EL-M-6A-11 *	
	SPST-NO/SPST-NC	LED	12 VAC/VDC	A22EL-M-12A-11 *	Red
			24 VAC/VDC	A22EL-M-24A-11 *	
	DPST-NC		6 VAC/VDC	A22EL-M-6A-02 *	
			12 VAC/VDC	A22EL-M-12A-02 *	
			24 VAC/VDC	A22EL-M-24A-02 *	
40-dia. head Push-lock	0707.10		100 VAC	A22EL-M-T1-01	
Turn-reset with Voltage	SPST-NC		200 VAC	A22EL-M-T2-01	
Reduction Unit			100 VAC	A22EL-M-T1-11	
A22E	SPST-NO/SPST-NC		200 VAC	A22EL-M-T2-11	
	DRET NO		100 VAC	A22EL-M-T1-02	
	DPST-NC		200 VAC	A22EL-M-T2-02	

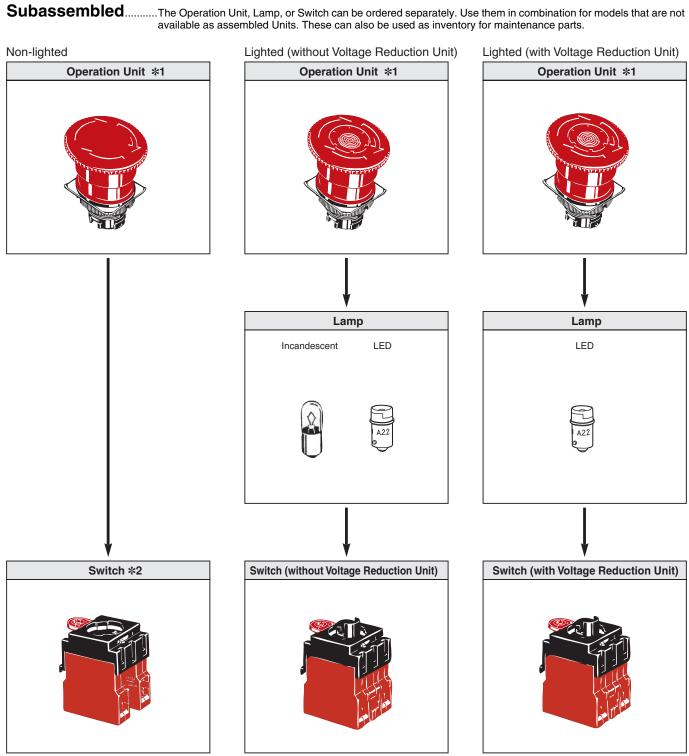
* Models with Korean S-mark certification.

Note: The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.)

Switch with Integrated Control Box

Appearance	Contact configuration	Model
	SPST-NC	A22E-M-01B *
	SPST-NO/SPST-NC	A22E-M-11B *
	DPST-NC	A22E-M-02B *

* Models with Korean S-mark certification.



***1.**The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.) ***2.** Up to three Switch Units can be mounted for multiple contacts.

Operation Units Non-lighted

Sealing capability		IP65 oil-resistant models	
Function Size	Small (30 dia.)	Medium (40 dia.)	Large (60 dia.)
Push-pull		A22E-MP	A22E-LP
Push-lock, turn-reset	A22E-S	A22E-M	A22E-L
Push-lock, key-reset (push-lock, turn-reset)	A22E-SK	A22E-MK	

Lighted

	Sealing capability	IP65
Function	Size	Medium (40 dia.)
Push-lock, tu	ırn-reset	A22EL-M

Note: The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.)

Lamp LED

Appearance	LED light		Rated voltage	Model	
			6 VAC/VDC	A22-6AR	
A22	Red	Standard	Standard	12 VAC/VDC	A22-12AR
e_			24 VAC/VDC	A22-24AR	

Note: For voltage-reduction lighting, use the A22-24AR.

Incandescent

Appearance	Rated voltage	Model
	6 VDC	A22-5
2	14 VAC	A22-12
	28 VAC	A22-24
\mathbf{O}	130 VAC	A22-H1

Switch (Standard Load)

Without Voltage Reduction Unit

	Classification	Non-lighted	Lighted
	Appearance		
	Switch Action	Momentary	Momentary
Contacts		Model	Model
	SPST-NC	A22-01M	A22L-01M
For standard loads	SPST-NO + SPST-NC	A22-11M	A22L-11M
	DPST-NC	A22-02M	A22L-02M

With Voltage Reduction Unit

Classification Appearance		Lighted (110 VAC)	Lighted (220 VAC)	
	Switch Action	Momentary	Momentary	
Contacts		Model	Model	
	SPST-NC	A22L-01M-T1	A22L-01M-T2	
For standard loads	SPST-NO + SPST-NC	A22L-11M-T1	A22L-11M-T2	
	DPST-NC	A22L-02M-T1	A22L-02M-T2	

Note: When using with a Voltage Reduction Unit, use the A22-24AR.

Accessories (Order Separately)

Item	Appearance	Classif	ication	Model	Remarks
	<u>a la</u>	SPST-NO	Standard load	A22-10	
		5P51-NU	Microload	A22-10S	
		ODOT NO	Standard load	A22-01	
Qwitch Dlooko		SPST-NC	Microload	A22-01S	Provided as standard.
Switch Blocks		DPST-NO,	Standard load	A22-20	 Order Switch Blocks only when adding or replacing them.
		one-piece	Microload	A22-20S	
		DPST-NC,	Standard load	A22-02	
		one-piece	Microload	A22-02S	
	<u>S</u>	Direct lighting	1	A22-TN	
Lamp Sockets		Voltage-	100 VAC	A22-T1	Used when changing the lighting
	a la contra la c	reduction lighting	200 VAC	A22-T2	method.
Mounting Latches				A22-3200	Provided as standard. Order Mounting Latches only when mounting Switch Blocks or Lamp Sockets that are purchased individually
	UNERGENCY	60-dia. black le back-ground	tters on yellow	A22Z-3466-1	"EMERGENCY STOP" is indicated on
Legend Plates for	STOP	90-dia. black le back-ground	tters on yellow	A22Z-3476-1	the plate. *2
Emergency Stop	WHERGER CL	60-dia. black letters on yellow back-ground		A22Z-3466-2	"EMERGENCY OFF" is indicated on the plate.
Hole Plug		Round		A22Z-3530	Can be plugged into pre-cut panel holes for future expansion. The color is black
Connectors		Applicable cable diameter	7 to 9 dia.	A22Z-3500-1	Plastic connector used to extend a cable
Connectors			9 to 11 dia.	A22Z-3500-2	from the Switch Box.
25-dia. Ring	0			A22Z-R25	Can be fit into a 25-dia. hole in the pane Since this is not attached to the main body, order separately. (Refer to page 14.)
30-dia. Resin Attachment	Ö			A22Z-A30	Can be fit into a 30-dia. hole in the panel (Refer to page 14.)
Lock Plate	К.			A22Z-3380	Use to fix the lever on the Switch.
		One hole, yello (for emergency		A22Z-B101Y	Material: Polycarbonate resin *2
Operation Keys	eration Keys			А22К-К	Two keys are provided.
Lock Ring	Rounded shape		A22Z-3360	The body is equipped with a Lock Fitting. This Lock Fitting is used when a more secure lock feature is required. (Refer to page 14.)	
Lamp Extractor	9			A22Z-3901	Rubber tool used to replace Lamps easily
Tightening Tool	<u>C</u>			A22Z-3905	Tool used to tighten rings from the back of the panel and to attach caps to lighted models.

Item	Appearance	Classification	Model	Remarks
E-stop Shroud for EMO, Yellow	EMERGICUS -		A22Z-EG1	Provides SEMI-S2/SEMATECH Application Guide for SEMI-S2 compatibility. The SEMI-S2-compatible Shroud and legend plate for EMERGENCY OFF come as a set. Use with an A22E Emergency Stop Switch. (for emergency shutoff) *1 *2
E-stop Shroud for EMO, Yellow	0	Legend plate for EMERGENCY OFF is not included.	A22Z-EG10	Provides SEMI-S2/SEMATECH APPLICATION GUIDE FOR SEMI S2 compatibility. Use with an A22E with EMO indication. (for emergency off) *2
E-stop Shroud for EMS, White	EMERGENE ST		A22Z-EG1-W	Provides SEMI-S2/SEMATECH Application Guide for SEMI-S2 compatibility. The SEMI-S2-compatible Shroud and legend plate for EMERGENCY STOP come as a set. Use with an A22E Emergency Stop Switch. (for emergency stop) *1*2
E-stop Shroud for EMS, White		Legend plate for EMERGENCY STOP is not included.	A22Z-EG10-W	Provides SEMI-S2/SEMATECH APPLICATION GUIDE FOR SEMI S2 compatibility. Use with an A22E with EMS indication. (for emergency stop) *2
E-stop Shroud, Yellow			A22Z-EG2	SEMI-S2/SEMATECH Application Guide for SEMI S2-compatible Shroud. (for emergency shutoff) *1*2 Use together with an A22E Emergency Stop Switch.

*1. These Shrouds are for use with the equipment only that conforms to SEMI standards. Do not use them for any other applications (e.g. emergency stop switches for machines or devices such as Machine tools, Printing presses, Industrial machinery, etc). ***2.** The A22-B101Y cannot be used in combination with the A22Z-3476-1 and the A22Z-EG□.

Note: 1. Accessories for A22Z-EG1: one "EMERGENCY OFF" label, two rubber washers, and one lock ring 2. Accessories for A22Z-EG10: one rubber washer and one lock ring (without label)

Specifications

Certified Standard Ratings

- UL, cUL (File No.E41515) 6A at 220 VAC, 10 A at 110 VAC
- TÜV (EN60947-5-1) (Low Voltage Directive) 3 A at 220 VAC
- CCC (GB14048.5)
- 3 A at 240 VAC, 1.5 A at 24 VDC

Certified Standards

Certification body	Standards	File No.	
UL *1	UL508, C22.2 No.14	E41515	
TÜV SÜD	EN60947-5-1, EN60947-5-5 (certified direct opening mechanism)	Inquire	
CQC (CCC)	GB14048.5	2003010303070635	
KOSHA *2	EN60947-5-1	2004-220, 2007-27 2009-189 (A22E-□-□-EMS/EMO)	

Note: Only models with NC contacts have a direct opening mechanism. *1. UL-certification for CSA C22.2 No. 14 and bears the Russ mark.

Certification has been obtained for the Switch Unit and the Lamp Socket. *2. Some models have been certified.

Ratings **Contacts (Standard Load)**

Rated	Rated voltage (V)	Rated current (A)			
carry current (A)		AC15 (inductive load)	AC12 (resistive load)	DC13 (inductive load)	DC12 (resistive load)
10	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. The above ratings were obtained by conducting tests under the following conditions. (1) Ambient temperature: 20°±2°C (2) Ambient humidity: 65±5% (3) Operating frequency: 20 operations/minute

2. Minimum applicable load: 10 mA at 5 VDC

LED Indicators without Voltage Reduction Unit

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

Characteristics

Туре		Emergency Stop Switches		
Item		Non-lighted model: A22E	Lighted model: A22EL	
Allowable operating	Mechanical	30 operations/minute *3		
frequency	Electrical	30 operations/minute *3		
Insulation resistance		100 MΩ min. (at 500 VDC)		
Dielectrie strongth	Between terminals of same polarity	2,500 VAC, 50/60 Hz for 1 min		
Dielectric strength	Between each terminal and ground	2,500 VAC, 50/60 Hz for 1 min		
Vibration resistance *2		10 to 55 Hz, 1.5-mm double amplitude (within 1 ms)		
Shock resistance	Destruction	1,000 m/s ²		
	Malfunction *2	250 m/s² max.		
Dunchility	Mechanical	300,000 operations min. *3		
Durability	Electrical	300,000 operations min. *3		
Ambient operating temperature *1		–20 to 70°C	–20 to 55°C	
Ambient operating hu	umidity	35% to 85%		
Ambient storage temperature		-40 to 70°C		
Degree of protection		IP65 (oil-resistant) *4	IP65 *4	
Electric shock protection class		Class II		
PTI (tracking characteristic)		175		
Degree of contamination		3 (EN60947-5-1)		

***1.** With no icing or condensation.

*2. Malfunction within 1 ms.

 $\boldsymbol{*3.}$ Setting and resetting once is counted as one operation.

***4.** The degree of protection from the front of the panel.

Structure and Nomenclature



Operation Unit

Color: Red Non-lighted Lighted

Note: The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.)

Lamp

- Light source
- LED Lamp
- Incandescent Lamp

Switch

Contact Ratings

10 A at 110 VAC (resistive load) 10 A at 24 VDC (resistive load)

Lighting Method

Non-lighted Lighted (without Voltage Reduction Unit) Lighted (with Voltage Reduction Unit)

(The above figures are examples of the lighted model.)

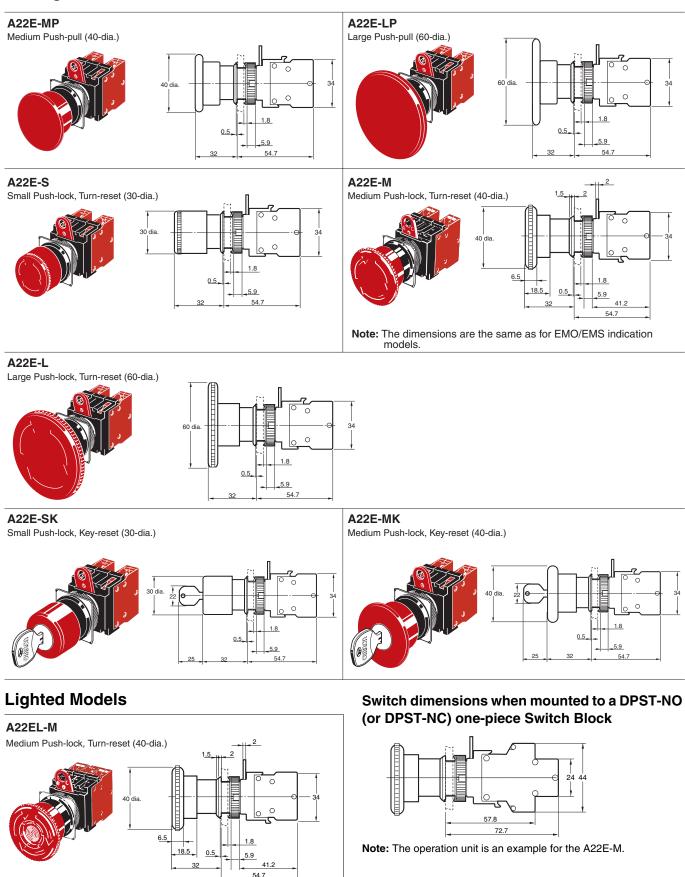


Lock Plate (Attached with the Operation Unit)

(Refer to the Mounting the Lock Plate on page 16 for use.)

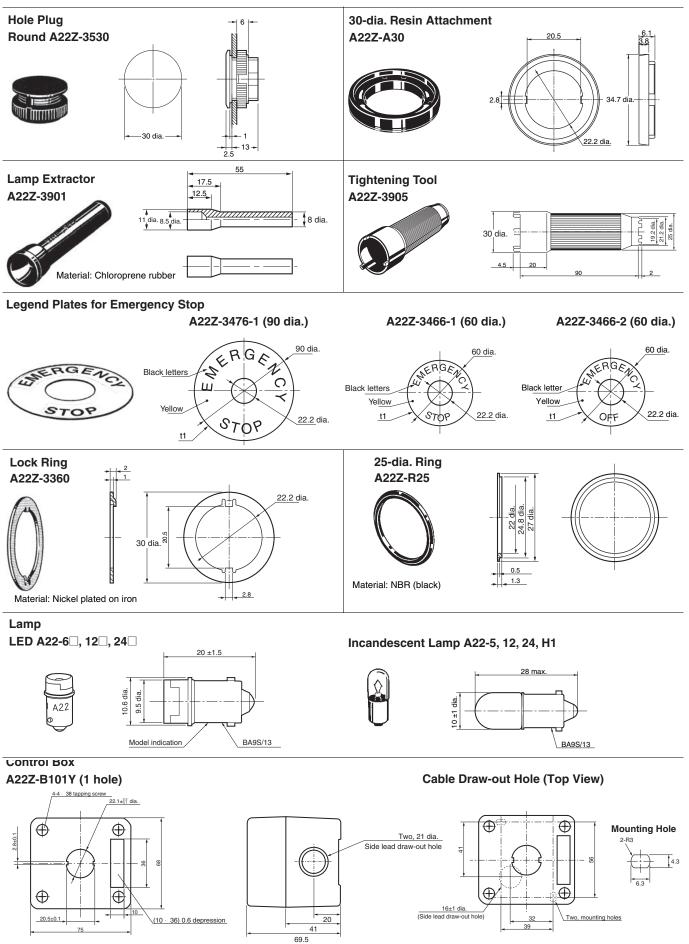
Dimensions

Non-lighted Models



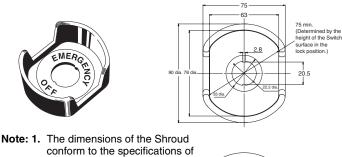
Note: The Operation Unit of A22E exept models with EMO/EMS indication is red. (The engraved mark is not white.)

Dimensions for Accessories



E-stop Shroud A22Z-EG1, A22Z-EG1-W, A22Z-EG10, A22Z-EG10-W

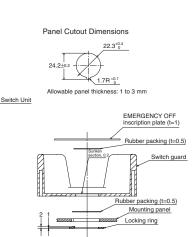




ÔF

2.5 +0.5 MERGENC 2. The Shroud is not provided with "EMERGENCY STOP" is indicated on A22Z-EG1-W.

Legend plate is not provided v A22Z-EG10 and A22Z-EG10-

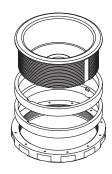


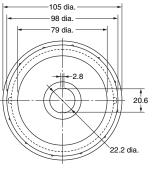
E-stop Shroud A22Z-EG2, A22Z-EG21, A22Z-EG22

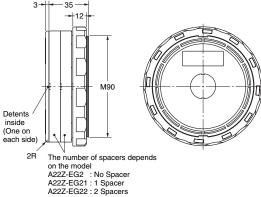
the SEMATECH Application

Guide for SEMI S2-93.

the Switch.







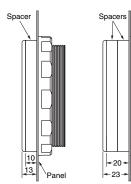
52.2 ma

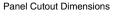
A22E-M

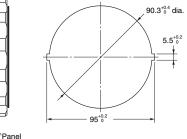
Panel

5R

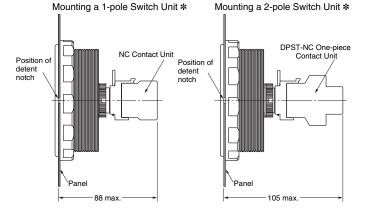
Mounting with Spacers With 1 Spacer With 2 Spacers



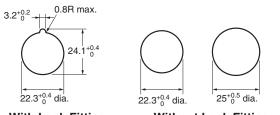




- Note: 1. The dimensions of the Shroud conform to the specifications of the SEMATECH Application Guide for SEMI S2-93.
 - 2. The Shroud is not provided with the Switch.
 - **3.** Tighten to a torque of 1.96 to 2.94 N·m.
 - 4. The allowable panel thicknesses are as follows: Without Spacers: t=1.3 to 22.5 mm With 1 Spacer: t=1.3 to 12.5 mm With 2 Spacers: t=1.3 to 2.5 mm
- * These are the dimension from the front of the panel when the Switch Unit is attached.



Panel Cutouts

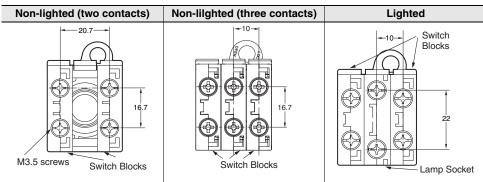


With Lock Fitting

Without Lock Fitting

- A Lock Ring is provided as a standard feature.
- When painting or coating the panel, make sure that the specified
- panel dimensions apply to the panel after painting or coating.
- Use an A22Z-R25 Ring when mounting to a panel with a 25-mm diameter hole.

Terminal Arrangement (Bottom View)



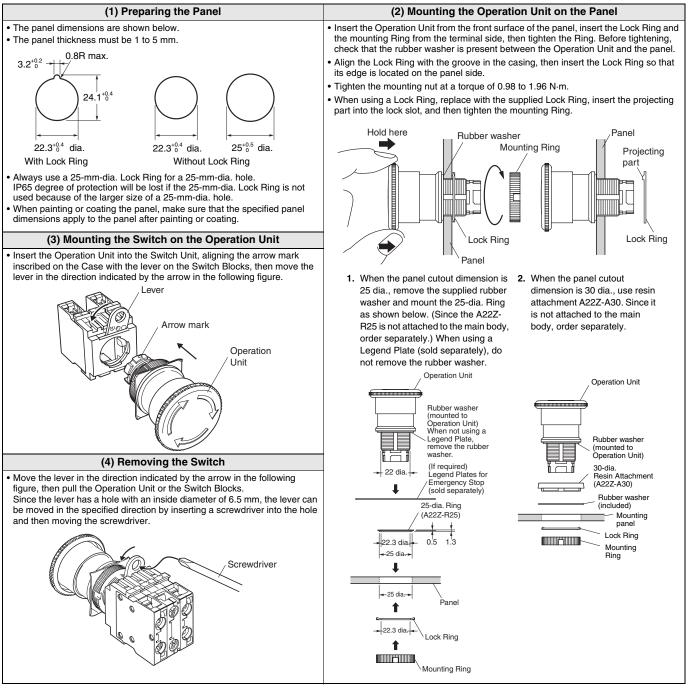
Terminal Connection

Туре	Terminal connection (BOTTOM VIEW)				
туре	SPST-NO + SPST-NC	DPST-NC	DPST-NC + SPST-NO	TPST-NC	
Non-lighted					
Lighted without Voltage Reduction Unit					
Lighted with Voltage Reduction Unit					

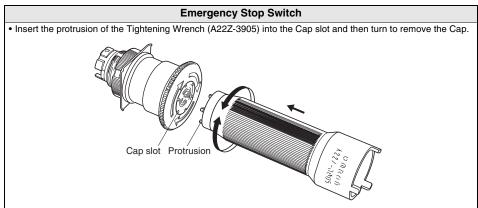
Note: The above terminal connection diagrams are examples for SPST-NO + SPST-NC and DPST-NC.

Installation

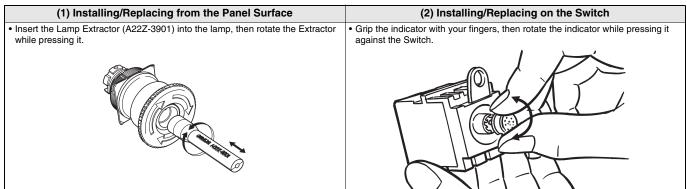
Mounting to the Panel



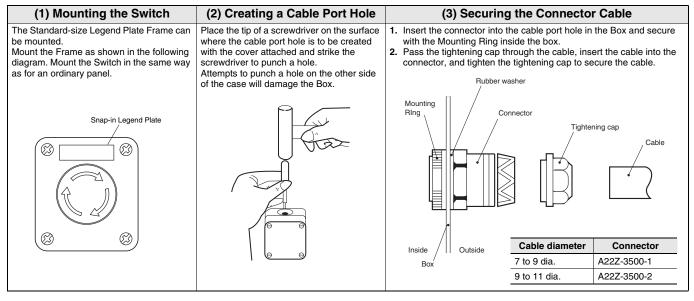
Assembling the Cap



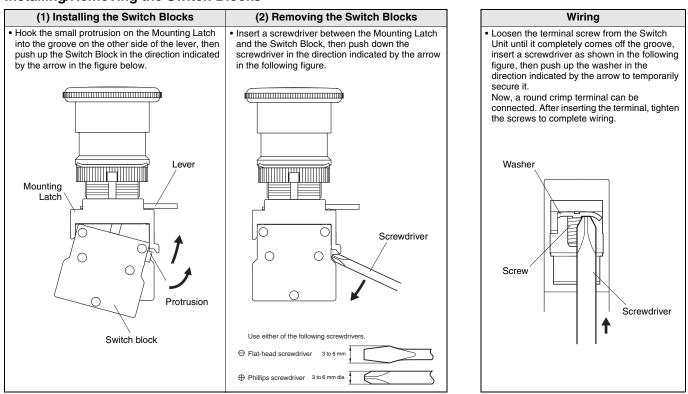
Installing/Replacing the Lamp



Control Box (Enclosure)



Installing/Removing the Switch Blocks



Safety Precautions

Be sure to read the precautions for all pushbutton switches in the Pushbutton Switches Group Catalog (Cat. No. X032).

CAUTION

Do not apply a voltage exceeding the rated voltage across the incandescent lamp terminals.

The lamp may be destroyed and the operation unit may fly out.

If the Operation Unit is separated from the Socket Unit, the equipment will not stop, creating a hazardous condition. Secure the lever on the Socket Unit by using the A22Z-3380 Lock Plate so that the Operation Unit cannot be easily separated from the Socket Unit. (Refer to "*Mounting the Lock Plate*" at the right.)



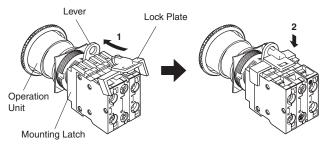
Precautions for Correct Use

Mounting

- Always make sure that the power is turned OFF before wiring the Switch. Also, do not touch the terminals or other current-carrying ports while power is being supplied. Electric shock may occur.
- Do not tighten the mounting ring more than necessary using tools such as pointed-nose pliers. Doing so will damage the mounting ring. The tightening torque is 0.98 to 1.96 N·m.
- Recommended panel thickness: 1 to 5 mm.
- When mounting the caps after changing the LED or the caps, tighten the caps at a tightening torque of 0.49 tp 0.78 N·m.

Mounting the Lock Plate

- Confirm that the lever on the Mounting Latch is on the side where the Operation Unit is secured and then insert the protrusion on the Lock Plate into the hole in the lever on the Mounting Latch.
- 2. Press the hole on the Lock Plate onto the protrusion on the Mounting Latch until it clicks into place.



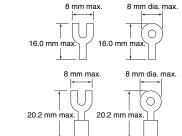
Wiring

- Terminal screws must be Phillips or slotted M3.5 screws with a square washer.
- The tightening torque is 1.08 to 1.27 N·m.
- Single wires, stranded wires, and crimp terminals can be connected to the Switch.
- Applicable Wiring Materials: Twisted strands: 2 mm² max. Solid wire: 1.6 mm dia. max.

Naked Crimp Terminals

Crimp Terminals with

Insulating Sheaths



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

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.
- The Switch is intended for indoor use only. Using the Switch outdoor may cause it to fail.

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.

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

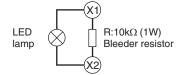
Mis-lighting of the LED

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

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

(Circuit example)

In case of using 24 VAC/VDC, Direct lighting

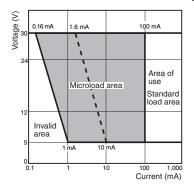


Using the Microload

Contact failure may occur if a Switch designed for a standard load is used to switch a microload. Use Switches within the application ranges shown in the following graph. Even within the application range, 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, $\lambda_{60} = 0.5 \times 10^{-6}$ /time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.

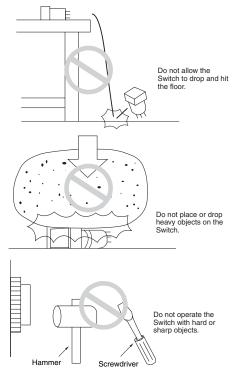


Others

- If the panel is to be coated, make sure that the panel meets the specified dimensions after coating.
- Due to the structure of the Switch, severe shock or vibration may cause malfunctions or damage to the Switch.

Also, most Switches are made from resin and will be damaged if they come into contact with sharp objects. Particularly scratches on the Operation Unit may create visual and operational obtrusions.

Handle the Switches with care, and do not throw or drop them.



Read and Understand This Catalog

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