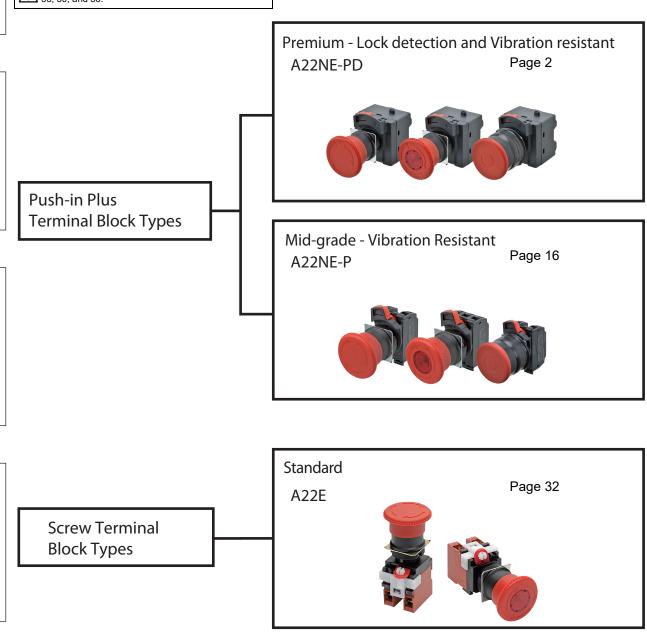
Emergency Stop Pushbutton Switches (22-dia. or 25-dia.) A22NE-PD/A22NE-P/A22E

Install in 22-dia. or 25-dia.

Panel Cutout (When Using a Ring)

- A wide variety of Emergency Stop Pushbuttons for all type of applications.
- · Lock lever design provides quick and easy installation.
- Available vibration resistant terminals (A22NE-P & A22NE-PD).
- Use 25-dia. ring to install in 25-dia. panel cutouts. *
- Lock detection function provides an added level of safety by minimizing emergency stop button failures from improper installation and damage.
- * Switches with an IP69K degree of protection do not support the 25-dia.

Be sure to read the "Safety Precautions" on pages 17,



Emergency Stop Pushbutton Switches (22-dia. or 25-dia.) Push-in Plus Terminal Block Models With Lock detection

A22NE-PD

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

- Push-in plus terminals greatly reduce wiring effort and provide vibration resistant connections.
- A maximum of up to four contact points can be combined together in the contact-point configuration.
- Oil-resistant to IP65 (non-lighted models) / IP65 (lighted models) / IP69K high-temperature, high-pressure cleaning (pull-reset models).
- Lock Detection function disconnects circuit when the switch lock lever becomes unlocked from damage or improper installation.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Be sure to read the "Safety Precautions" on pages 12 and 56.

Model Number Structure

Model Number Legend (Completely Assembled)...... Shipped as a set which includes the Operation Unit, LED

Shipped as a set which includes the Operation Unit, LED Lamp (lighted models only), and Switch Block.



1. Operation Unit size (diameter)

Code	Description
S	30 dia.
М	40 dia.
L	60 dia.
	-

2. Reset function

Code	Description		
None	Turn-reset		
Р	Pull-reset *		

* The pull-reset type is only available on the 40 dia. Operation Unit, non-lighted type. Not available on lighted types.

3. Terminal specification

Code	Description
Р	Push-in plus terminal block

4. Lock lever function

Code	Description		
D	Lock-lever-linked contact function		

5. Contacts

Code	Number of	Contacts		
Code	Contacts	NO	NC	
01	one contact	0	1	
02	two contacts	0	2	
11		1	1	
03	three contacts	0	3	
21		2	1	
12		1	2	
22	four contacts	2	2	
13		1	3	
04		0	4	

Note. NO: 1a-contact NC: 1b-contact

6. LED lamp voltage

Code	Description	
N	Non-lighted	
С	24 VAC/VDC	

* Lighting color is red.

7. Others (Degree of Protection)

Code	Description
None	IP65
69K	IP69K *

* IP69K is supported only by the Pull-reset models.

A22NE-PD

Ordering Information

List of Models (Completely Assembled) Non-lighted Models (Without EMO/EMS Indication)

Appearance	Operation	Degree of Protection	Contact configuration *	Set Model	Color of ca
			2NC	A22NE-MP-PD02-N	
			2NC, 1NO	A22NE-MP-PD12-N	
	40-dia. head	IP65 oil-resistant	3NC	A22NE-MP-PD03-N	
	Medium Pull-reset A22NE-MP-PD□□-N	models	2NC, 2NO	A22NE-MP-PD22-N	
Name of the last			3NC, 1NO	A22NE-MP-PD13-N	
			4NC	A22NE-MP-PD04-N	
			2NC	A22NE-MP-PD02-N-69K	
			2NC, 1NO	A22NE-MP-PD12-N-69K	
	40-dia. head	IDOOL	3NC	A22NE-MP-PD03-N-69K	
	Medium Pull-reset A22NE-MP-PD□□-N-69K	IP69K	2NC, 2NO	A22NE-MP-PD22-N-69K	
			3NC, 1NO	A22NE-MP-PD13-N-69K	
			4NC	A22NE-MP-PD04-N-69K	
			2NC	A22NE-S-PD02-N	
			2NC, 1NO	A22NE-S-PD12-N	- Red
	30-dia. head	IP65 oil-resistant	3NC	A22NE-S-PD03-N	
	Small Turn-reset A22NE-S-PD□□-N	models	2NC, 2NO	A22NE-S-PD22-N	
			3NC, 1NO	A22NE-S-PD13-N	
			4NC	A22NE-S-PD04-N	
	40-dia. head		2NC	A22NE-M-PD02-N	
			2NC, 1NO	A22NE-M-PD12-N	-
		IP65 oil-resistant	3NC	A22NE-M-PD03-N	
	Medium Turn-reset A22NE-M-PD□□-N	models	2NC, 2NO	A22NE-M-PD22-N	
			3NC, 1NO	A22NE-M-PD13-N	
			4NC	A22NE-M-PD04-N	
			2NC	A22NE-L-PD02-N	
			2NC, 1NO	A22NE-L-PD12-N	
	60-dia. head	IP65 oil-resistant	3NC	A22NE-L-PD03-N	
	Large Turn-reset A22NE-L-PD□□-N	models	2NC, 2NO	A22NE-L-PD22-N	
			3NC, 1NO	A22NE-L-PD13-N	
			4NC	A22NE-L-PD04-N	

^{*} In addition to the above, we also provide the following contact configurations: [1NC], [1NC, 1NO], and [1NC, 2NO]. Ask your OMRON representative for details.

Lighted Model (Without EMO/EMS Indication)

	_					
Appearance	Operation	Degree of Protection	Contact configuration	LED lamp voltage	Set Model	Color of cap
			2NC		A22NE-M-PD02-C	
N	40-dia. head Medium Turn-reset A22NE-M-PD□□-C	IP65	2NC, 1NO	24 V AC/DC	A22NE-M-PD12-C	Red
			3NC		A22NE-M-PD03-C	
			2NC, 2NO		A22NE-M-PD22-C	
			3NC, 1NO		A22NE-M-PD13-C	
			4NC		A22NE-M-PD04-C	

^{*}In addition to the above, we also provide the following contact configurations: [1NC], [1NC, 1NO], and [1NC, 2NO]. Ask your OMRON representative for details.

Accessories (Order Separately)

Operation Unit

Non-lighted

	Size	Small (30 dia.)	Medium (40 dia.)	Large (60-dia.)
Function	Degree of protection	Single item order model		
	IP65 oil-resistant models		A22NE-MP-N	
Pull-reset	IP69K		A22NE-MP-N-69K	
Turn-reset	IP65 oil-resistant models	A22NE-S-N	A22NE-MRO-N A22NE-MRO-N-RD A22NE-MRS-N A22NE-MRS-N-RD	A22NE-L-N

Lighted

	Size	Medium (40 dia.)
Function	Sealing capability	Single item order model
		A22NE-M-L
Turn-reset	IP65	

LED lamp

Appearance	LED light	Rated voltage	Model	Remarks
	Red	24 V AC/DC	A22NZ-L-RC	These are provided with the completely assembled set of lighted models. Order LED Lamps only when replacing them.

Note: For details on the accessories common to the screw terminal block models and push-in plus terminal block models, refer to "Common Accessories and Tools (Order Separately)" on page 51.

A22NE-PD

Specifications

Certified Standard Ratings

- UL508 (File No. E76675), CSA C22.2 No.14
 5 A at 125 VAC, 3 A at 250 VAC B300
- TÜV (EN60947-5-1) Certified direct opening -(EN60947-5-5)

AC-15 3 A at 125 VAC DC-13 1 A at 30 VDC

CCC (GB14048.5)
 AC-15 3 A at 125 VAC
 DC-13 1 A at 30 VDC

Applicable Standards

UL1059, UL486E

Note: Use a 10 A fuse type gl or gG that conforms to IEC60269 as a short-circuit protection device. This fuse is not provided in the main unit

Ratings

Contacts (Standard Load)

Rated	Rated carry current (A)	Rated	Rated current (A)			
insulation voltage (V)		voltage (V)	AC15 (Inductive load)	AC12 (Resistive load)	DC13 (Inductive load)	DC12 (Resistive load)
250		30 VAC				
		125 VAC	3 A	5 A		
	5	250 VAC	1.5 A	3 A		
	5	30 VDC		1 A	1 A	2 A
		125 VDC			0.22 A	0.4 A
		250 VDC			0.1 A	0.2 A

- **Note: 1.** The above ratings were obtained by conducting tests under the following conditions.
 - (1) Ambient temperature: 20°±2°C
 - (2) Ambient humidity: 65±5%
 - (3) Operating frequency: 20 operations/minute
 - Minimum applicable load: 1 mA at 5 VDC (Resistive load) The operating range may vary depending on the usage conditions and type of load.

Certified Standards

Certification Standards		File No.
UL*	UL508, C22.2 No.14	E76675
TÜV SÜD	EN60947-5-1 (Certified direct opening), EN60947-5-5	Consult your OMRON representative for details.
CQC (CCC)	GB14048.5	Consult your OMRON representative for details.

Note: Only models with NC contacts have a direct opening mechanism.

*UL-certification for CSA C22.2 No. 14 has been obtained.

LED Lamp (A22NZ-L-RC)

Rated voltage	Operating voltage	Current value	
24 VAC/VDC	24 VAC/VDC ± 10%	Approx. 12 mA	

Characteristics

Operation		Turn	-reset	Pull-	-reset		
		Non-lighted model	Lighted Model	Non-lighted model	Non-lighted model (Models with IP69K)		
Item		A22NE-□-PD□□-N-□	A22NE-M-PD -C-	A22NE-MP-PD -N-	A22NE-MP-PD -N-69		
Allowable operating	Mechanical	30 operations/minute or les	ss (One operation consists o	of set and reset operations.)			
frequency	Electrical	30 operations/minute or les	ss (One operation consists o	of set and reset operations.)			
Insulation resistance *1		100 MΩ min. (at 500 VDC		<u> </u>			
Contact resistance	:e	100 m Ω max. (initial value)				
	Between terminals of same polarity*1	2,000 VAC, 50/60 Hz 1 mi	nute (initial value)				
Dielectric strength	Between terminals of different polarity	2,000 VAC, 50/60 Hz 1 mi	nute (initial value)				
	Between each terminal and ground	each					
Vibration resistance	Malfunction	10 to 55 Hz, 1.5 mm doub	10 to 55 Hz, 1.5 mm double amplitude (contact separation within 1 ms)				
Shock resistance	Malfunction	250 m/s² max. (contact se	250 m/s ² max. (contact separation within 1 ms)				
	Mechanical	300,000 operations min. (One operation consists of set and reset operations.) 100,000 operations m (One operation consists set and reset operations.)					
Durability	Electrical (100 mA at 24 VAC(Resistive load))	250,000 operations min. (One operation consists of set and reset operations.) 100,000 operations min (One operation consists set and reset operations.)					
	Electrical (3 mA at 250 VAC (Resistive load))	100,000 operations min. (0	One operation consists of se	et and reset operations.)			
Ambient operating	temperature *2	-20 to +70°C	-20 to +55°C	-20 to +70°C	-20 to +70°C * 3		
Ambient operatin	g humidity	35 to 85% RH			•		
Ambient storage te	mperature *2	-40 to +70°C					
Degree of protect	ion *4	IP65 oil-resistant models	IP65	IP65 oil-resistant models	IP69K		
Electric shock prot	ection class	Class II					
PTI (tracking char	racteristic)	175					
Degree of contam	nination	3 (EN 60947-5-1)					
Minimum direct opening stroke		11 mm					
Minimum direct opening force		45 N					
Conditional short-o	circuit current	100 A (EN 60947-5-1)					
Wight (for a 40-di 2NC/2NO Operation		Approx. 95 g	Approx. 95 g	Approx. 125 g	Approx. 135 g		

- *1. State when an LED is not added between terminals of the same polarity on a lighting unit.
 *2. With no icing or condensation.
 *3. Capable of operation at up to 80°C under IP□9K testing conditions per JIS D 5020.
 *4. The degree of protection from the front of the panel.

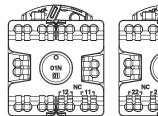
Operating Characteristics

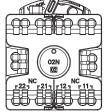
	Turn-reset	Pull-reset Pull-reset		
Item	Lighted / non-lighted models	Non-lighted model	Non-lighted model (Models with IP69K)	
Total travel force (TTF)	45 N max.	60 N max.	70 N max.	
Return force (RF)	0.25N·m max. *	60 N max.	70 N max.	
Total travel (TT)	10 ±1 mm	5.5 ±1 mm		

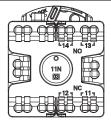
^{*}Rotation torque value.

Terminal Arrangement (BOTTOM VIEW)

Non-lighted



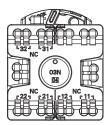


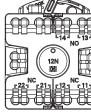


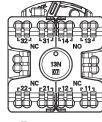
One contact (1NC)

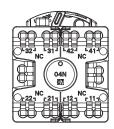
Two contacts (2NC)

Two contacts (1NC + 1NO)









Three contacts (3NC)

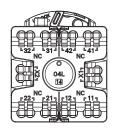
Three contacts (2NC + 1NO)

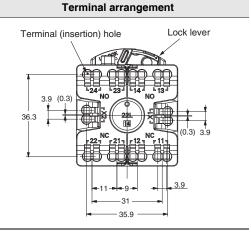
Four contacts (3NC + 1NO)

Four contacts (4NC)

Lighted

The switch terminal is same as that in the non-lighted models. Indicates the terminals for lighting (X1-X2). (Example: Four contacts (4NC) Lighted models)



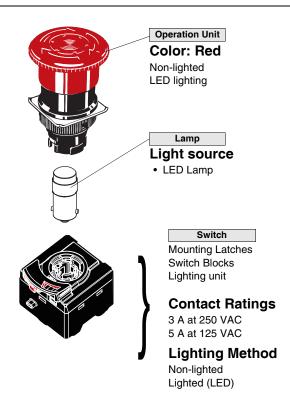


Terminal Arrangement

Type	Terminal Arrangement (BOTTOM VIEW)					
Туре	1NC, 1NO (two contacts)	2NC, 2NO (four contacts)	3NC, 1NO (four contacts)	4NC (four contacts)		
	NO 14 ————————————————————————————————————	NO NO 24 23 14 13	NC NO 32	NC NC 32 - 1 31 42 - 1 41		
Non-lighted						
	NC 12 — 11	NC NC 22 - 21 12 - 11	NC NC 22	NC NC 22		
	NO 14 ————————————————————————————————————	NO NO 13	NC NO 32	NC NC 32 - 41		
Lighted	X2	X2 ————————————————————————————————————	X2 ————————————————————————————————————	X2 ————————————————————————————————————		
	NC 12 — 11	NC NC 22	NC NC 22	NC NC 22		

Note: The terminal arrangement shows the representative. It depends on the number of contacts in the series.

Structure and Nomenclature



A22NE-PD

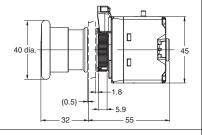
Dimensions (Unit: mm)

Non-lighted Models

A22NE-MP-PD□□-N

Pull-reset (40-dia.) Degree of Protection: IP65 oil-resistant models

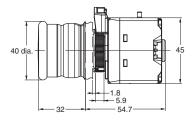




A22NE-MP-PD□□-N-69K

Pull-reset (40-dia.) Degree of Protection: IP69K

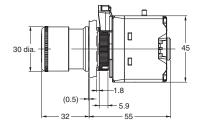




A22NE-S-PD□□-N

Small Turn-reset (30-dia.) Degree of Protection: IP65 oil-resistant models

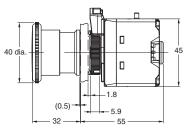




A22NE-M-PD□□-N

Medium Turn-reset (40-dia.) Degree of Protection:



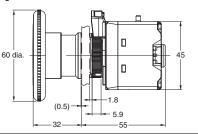


Note: The dimensions the same even if the Operation Unit is replaced with the A22NE-MR□-N or the A22NE-MR□-N-RD.

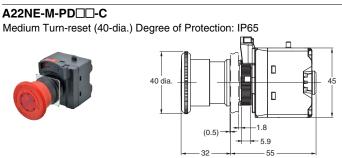
A22NE-L-PD□□-N

Large Turn-reset (60-dia.) Degree of Protection: IP65 oil-resistant models





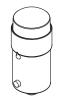
Lighted Model

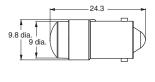


Note: Unless otherwise specified, a tolerance of ± 0.8 mm applies to all dimensions.

Accessories (Order Separately)

LED Lamp A22NZ-L-RC





Note: For details on the accessories common to the screw terminal block types and push-in plus terminal block types, refer to "Common Accessories and Tools (Order Separately)" on page 51.

Application

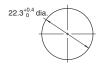
Mounting to the Panel

(1) Preparing the Panel

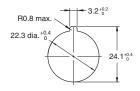
Panel hole dimension and panel thickness

 If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

Panel hole dimension	Panel thickness
22.3 dia.	1 to 5 mm

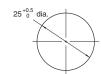


When using a A22Z-3360 (Order Separately) Lock Ring



For 25-dia.

- Use the A22Z-R25 (Order Separately) rubber ring.
- *Switches with an IP69K degree of protection do not support the 25-dia.



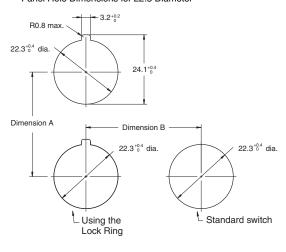
(2) Minimum mounting pitch (Dimension A, Dimension B)

Minimum mounting pitch

Type of operation unit	Dimension A (mm) min.	Dimension B (mm) min.	
30-dia., 40-dia. models	50 * 1	50	
60-dia. model	70	70	

- *1. If the Switch Unit lock levers all face the same direction at the minimum mounting pitch, be sure to note the order the Switch Units are attached to the Operation Unit.
- ***2.** When using each accessory (Order Separately), set the A and B dimensions in view of the dimensions of the accessories.
- ***3.** Make sure the mounting pitch does not hinder the operation.

Panel Hole Dimensions for 22.3 Diameter

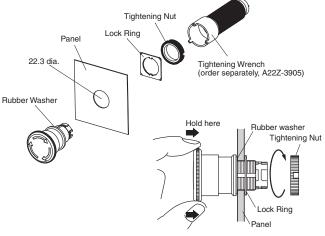


(3) Mounting the Operation Unit on the Panel

- Do not tighten the Tightening Nut more than necessary using tools such as pointed-nose pliers.
- Doing so will damage the Tightening Nut. (The tightening torque of the Tightening Nut is 1.0 to 2.0 N·m.) Tightening Wrench: A22Z-3905

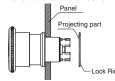
Panel Hole of 22.3-mm Diameter

 Insert the Operation Unit from the front of the panel, insert the Lock Ring and Tightening Nut from the back of the panel, and tighten the Tightening Nut. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



When the A22Z-3360 Lock Ring (Order Separately) is used

• Take note of the direction when mounting the Lock Ring.



Panel Hole of 25-mm Diameter

 Insert the A22Z-R25 (Order Separately) between the Operation Unit and Panel, and tighten the Tightening Nut.

Before tightening, check that the rubber washer supplied with the Operation Unit is present between the Operation Unit and the 25-dia. Ring.

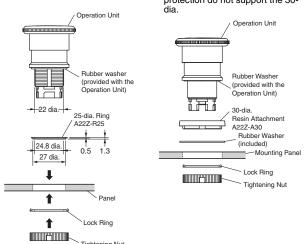
Panel Hole of 30-mm Diameter

 Insert the A22Z-A30 (Order Separately) between the Operation Unit and Panel, and tighten the Tightening Nut.

 Refers tightening check that the

Before tightening, check that the supplied rubber washer is present between the Operation Unit and the panel, and between the 30-dia. Resin Attachment and the panel.

Switches with an IP69K degree of protection do not support the 30dia.

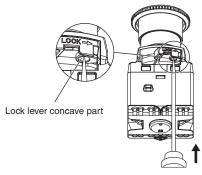


Panel Cutouts	Panel thickness
25 mm dia.	1 to 5 mm
30 mm dia.	1 to 3 mm

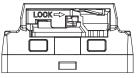
Removing the Switch Unit

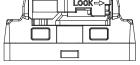
When the Switch Unit is to be Removed

Slowly push the release port (concave part) of the lock lever with a screwdriver to release the lock. The lock lever moves to the release position.



<Lock lever position>





Release position

Locked position

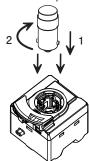
When the lock lever is at the released position in this Switch, the NO and NC contact operation is reversed.

Set the lock lever to the locked position when using the Switch.

Installing the LED Lamp (Lighted Models)

When the LED Lamp is to be Installed

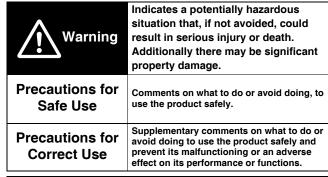
Insert the protrusions on the LED Lamp into the guides on the Switch Unit in direction (1), and then turn the LED Lamp in direction (2) to lock it in place.



Safety Precautions

Be sure to read the precautions for All PushButton Switches in the website at: http://www.ia.omron.com/.

Indication and Meaning for Safe Use



↑ WARNING

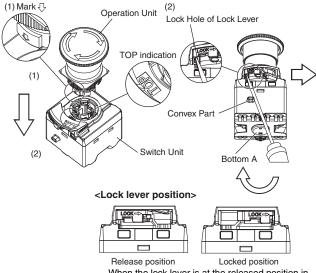
Do not perform wiring with power supplied to the Switch/Indicator. Do not touch the terminals or other charged parts while power is being supplied. Doing so may result in electric shock.



Precautions for Safe Use

- Make sure the Operation Unit and the Switch Unit are properly assembled.
 - <Assembling the Operation Unit and Switch Unit>
 - (1) Assembling the Operation Unit and Switch Unit Align the TOP indication (the mark \$\frac{1}{2}\$) on the Operation Unit with the TOP indication on the Switch Unit, and insert the Operation Unit while keeping the bottom A pressed.
 - (2) Locking the lock lever

With a screwdriver inserted in the lock hole of the lock lever, bring the screwdriver in contact with the convex part of the case, and turn the lock lever until a clicking sound is heard.



When the lock lever is at the released position in this Switch, the NO and NC contact operation is reversed.

Set the lock lever to the locked position when using the Switch.

 When transition wiring is performed, make sure the switching current inside the Switch and the current based on the transition wiring is below the rated current of the Switch.
 If a current value higher than the rated current flows, it could result in emission of heat, or damage and deformation of the Switch, which could cause fire and locking of the contact, and thus a loss

of safety.

- Do not disassemble or modify the Switch/Indicator under any circumstances.
- Doing so may prevent the Switch/Indicator from functioning to its full capability. Do not drop the Switch/Indicator. Do not apply pressure that may deform or alter the Switch/Indicator.
- The durability of the Switch varies considerably depending on the switching conditions. Always test the Switch/Indicator under actual working conditions before application and use the Switch/Indicator only for the number of switching operations allowed.
- Do not allow the load voltage and current to exceed the rated value. This may damage or burn out the Switch/Indicator.
- Do not use the Switch/Indicator in locations where explosive or flammable gases or liquid may be present or scattered. The electric ark or the heat caused by switching contacts may cause a fire or explosion.
- Do not use the Switch/Indicator in locations where toxic gases, such as H₂S, SO₂, NH₃, HNO₃, and Cl₂, may be present, or in locations subject to high temperature or humidity. Doing so may damage the Switch/Indicator due to contact failure or corrosion.
- Do not use the Switch/Indicator submersed in oil or water, or in locations continuously subject to splashes of oil or water. Doing so may result in oil or water entering and damaging the Switch/ Indicator.
- Do not use or keep the Switch/Indicator under the following conditions:
 - Subject to severe temperature changes.
 - Subject to high humidity or condensation.
 - Subject to severe vibration or shock.
 - Where direct rays of the sun strike.
 - Where sea breeze may be present.
- Make sure that a rubber washer is present between the Operation Unit and the panel. In models with IP69K, make sure the rubber bush of the Operation Unit is properly attached.
- Otherwise, the specifications of the protective structure may not be satisfied.
- Do not apply excessive force to the Switch or wirings. Damage or deformation of the Switch Unit could result in an improper contact or a loss of safety.
- Use an appropriate wiring and crimp terminals (hereinafter, called ferrule terminals).
- Exercise caution to avoid wiring errors when connecting the terminals.
- To prevent wiring materials from smoking or ignition, confirm wire ratings and use the wiring materials given in the following table.

Wire Type	Wire material	Recommended Wire	Wire coating peeling amount
Solid wire/ Stranded Wire	Copper	0.25 to 1.5 mm ² AWG 24 to 16	Ferrules used: 10 to 12 mm (Varies depending on the recommended ferrule conductor length) Ferrules not used: 8 mm

Use wiring crimp terminals and ferrule terminals of the specified

A22NE-PD

- After storing the product for a long time exceeding 1 year, perform, at a minimum, inspections of the operating characteristics, contact resistance, insulation resistance, and dielectric strength as well as evaluate the product under the working conditions.
- This product is intended for indoor use only. Using the product outdoors will result in failure.
- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle.
 The terminal block may be damaged if you insert the screwdriver straight in.
- Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force.

Doing so may cause the wire disconnection.

- Do not insert more than one wire into each terminal insertion hole.
- When mounting on a device with high airtightness, test operation in advance. There is a risk that the negative pressure will prevent the Operation Unit of from returning.
- Although the contacts of an A22NE-PD can be used with both the standard loads and microloads, once a contact has opened or closed under a load, you cannot again connect a small-capacity load. Doing so could roughen the contact surface, and result in loss of contact reliability.
- In the case of loads where an inrush current occurs when the contact is opened or closed, the durability may reduce due to extreme wear on the contacts.

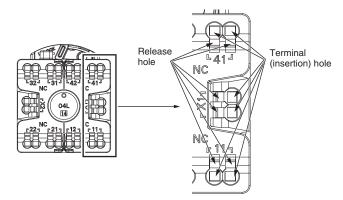
If necessary, insert a contact protection circuit.

 If a contact weld, the lock lever might not return to the release position, and contact inversion might not occur. In such a case, move the lock lever to the release position, and remove the Switch Unit from the Operation Unit.

Precautions for Correct Use

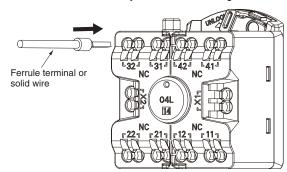
Wiring

1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

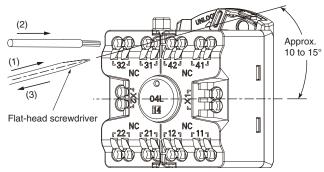
- Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.
- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wires.



Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

- Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be appropriately 10 to 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until the end strikes the terminal block.
- ${\bf 3.}\,$ Remove the flat-blade screwdriver from the release hole.



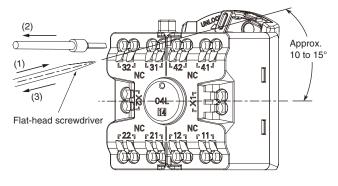
Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and it is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

- Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be appropriately 10 to 15°.
- 2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
- 3. Remove the flat-blade screwdriver from the release hole.



3. Recommended Ferrules and Crimp Tools Coating peeling amount

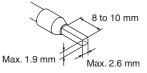
Recommend Wire Type	Stripping length (Ferrules not used)	
0.25 to 1.5 mm ² /AWG 24 to AWG 16	8 mm	

Recommended ferrules

	Applicable wire		Stripping	Recommended ferrules		
(mm²)	(AWG)	conductor length (mm)	length (mm) (Ferrules not used)	Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	10	Al 0, 25-8	H0.25/12	216-301
0.23	24	10	12	AI 0, 25-10		
0.34	22	8	10	AI 0, 34-8	H0.34/12	216-302
0.34	22	10	12	AI 0, 34-10		
0.5	20	8	10	AI 0, 5-8	H0.5/14	216-201
0.5	20	10	12	AI 0, 5-10	H0.5/16	216-241
0.75	18	8	10	AI 0, 75-8	H0.75/14	216-202
0.75	0.75 18	10	12	AI 0, 75-10	H0.75/16	216-242
1/1.25	18/17	8	10	Al 1-8	H1.0/14	216-203
1/1.20	10/17	10	12	AI 1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	Al 1, 5-8	H1.5/14	216-204
1.20/1.0	17/10	10	12	Al 1, 5-10	H1.5/16	216-244
Recom	Recommended Crimp Tools		CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocri mp4	

Note: 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.

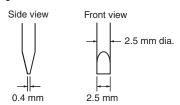
2. Make sure that the ferrule processing dimensions conform to the following figures.



Recommended Flat-Blade Screwdrivers

Use a flat-blade screwdriver to connect and remove wires. Use one of the following flat-blade screwdrivers.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacture
ESD 0,40 × 2,5	Wera
SZS 0,4 × 2,5 SZF 0-0,4 × 2,5 *	Phoenix Contact
0.4 × 2.5 × 75 302	Wiha
AEF.2,5 × 75	Facom
210-719	Wago
SDI 0,4 × 2,5 × 75	Weidmuller

- * The SZF 0-0,4 x 2,5 (manufactured by Phoenix Contact) can be procured through an OMRON exclusive purchase form (XW4Z-00B).
- After wiring the Switch/Indicator, provide a sufficient insulation distance.

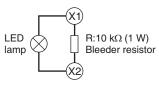
A22NE-PD

LED Lamps

- A current-limiting resistor is built in the LED lamp, so the installation of an external resistance is not required.
- Lighting malfunction of the LED lamp
 A micro-current of approximately 0.1 mA or less is sufficient to turn
 on the LED lamps. Take a countermeasure like adding a resistor
 to prevent mis-lighting in parallel to the LED lamp.
 The micro-current varies with the machine (leak current or stray)

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.

(Example of lighting malfunction prevention circuit) When using a 24 VAC/DC Lighted Model



Be sure to read the "Safety Precautions" on page 56.

Emergency Stop Pushbutton Switches (22-dia. or 25-dia.) Push-in Plus Terminal Block Models

A22NE-P

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

- Push-in plus terminals greatly reduce wiring effort and provide vibration resistant connections.
- A lock lever provides a secure mounting of the switch assembly.
- A maximum of up to six contact points can be combined together in the contact-point configuration.
- Oil-resistant to IP65 (non-lighted models) / IP65 (lighted models) / Supports IP69K high-temperature, high-pressure cleaning (pull-reset models).



For the most recent information on models that have been certified for safety standards, refer to your Omron website.

 \triangle

Be sure to read the "Safety Precautions" on pages 30 and 56.

Model Number Structure

Model Number Legend (Completely Assembled).....

Shipped as a set which includes the Operation Unit, LED Lamp (lighted model only), Mounting Latches, Lighting Units (lighted model only), and Switch Block.



1. Operation Unit size (diameter)

Code	Description
S	30 dia.
М	40 dia.
L	60 dia.

2. Reset function

Code	Description
None	Turn-reset
Р	Pull-reset ≭

* The pull-reset type is only available on the 40 dia. Operation Unit, non-lighted type. Not available on lighted types.

3. Contact specification/Terminal specification

Code	Description
Р	Standard load/Push-in plus terminal block

4. Contacts

	Num	ber of	Unit position					
Code	Switch	Blocks	Non-lighted		Lighted			
	NO	NC	1	2	3	1	2	3
002	0	1			NC		Lighting unit	NC
102	1	1	NO		NC	NO	Lighting unit	NC
202	0	2	NC		NC	NC	Lighting unit	NC
212	1	2	NC	NO	NC			
222	0	3	NC	NC	NC			

Note 1. NO: 1a-contact NC: 1b-contact

2. For details on the unit position, refer to the figure below.



5. LED lamp voltage

Code	Description LED Lamp Voltage	
N	Non-lighted	
Α	Lighted (LED) *	6 VAC/DC
В		12 VAC/DC
С		24 VAC/DC
D		100/110/120 VAC
Е		200/220/230/240 VAC

* Lighting color is red.

6. Others (Degree of Protection/Control box)

, -				
Code	Configuration			
None	IP65			
69K	IP69K			
B*	Built-in control box			

* One-contact unit type.

A22NE-P

Ordering Information

List of Models (Completely Assembled) Non-lighted Models

Appearance	Operation	Degree of Protection	Contact configuration *	Set Model	Color of cap
			1NC (1)	A22NE-MP-P002-N	
	40-dia. head		1NC, 1NO (2)	A22NE-MP-P102-N	
	Medium Pull-reset	IP65 oil-resistant models	2NC (2)	A22NE-MP-P202-N	
	A22NE-MP-P□□2-N	models	2NC, 1NO (3)	A22NE-MP-P212-N	
			3NC (3)	A22NE-MP-P222-N	
_			1NC (1)	A22NE-MP-P002-N-69K	
	40-dia. head		1NC, 1NO (2)	A22NE-MP-P102-N-69K	
	Medium Pull-reset	IP69K	2NC (2)	A22NE-MP-P202-N-69K	-
	A22NE-MP-P□□2-N-69K		2NC, 1NO (3)	A22NE-MP-P212-N-69K	
			3NC (3)	A22NE-MP-P222-N-69K	
			1NC (1)	A22NE-S-P002-N	Red
	30-dia. head		1NC, 1NO (2)	A22NE-S-P102-N	
	Small Turn-reset		2NC (2)	A22NE-S-P202-N	
	A22NE-S-P□□2-N		2NC, 1NO (3)	A22NE-S-P212-N	
			3NC (3)	A22NE-S-P222-N	
			1NC (1)	A22NE-M-P002-N	
	40-dia. head		1NC, 1NO (2)	A22NE-M-P102-N	
	Medium Turn-reset	IP65 oil-resistant models	2NC (2)	A22NE-M-P202-N	
	A22NE-M-P□□2-N	models	2NC, 1NO (3)	A22NE-M-P212-N	
			3NC (3)	A22NE-M-P222-N	
			1NC (1)	A22NE-L-P002-N	
	60-dia, head		1NC, 1NO (2)	A22NE-L-P102-N	
	Large Turn-reset		2NC (2)	A22NE-L-P202-N	
	A22NE-L-P□□2-N		2NC, 1NO (3)	A22NE-L-P212-N	
			3NC (3)	Δ22NF-I -P222-N	

 $[\]ensuremath{\bigstar}$ The number in parentheses () indicates the number of switch units.

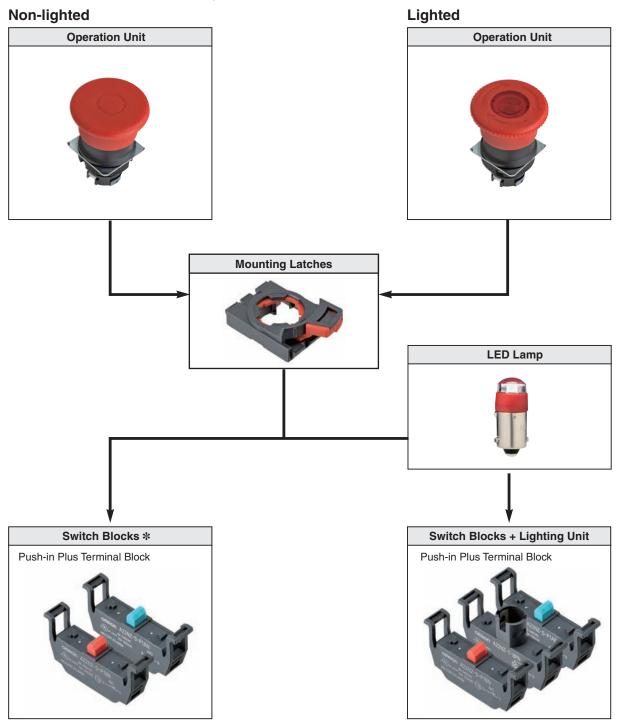
Lighted Model

Appearance	Operation	Degree of Protection	Contact configuration *	LED lamp voltage	Set Model	Color of cap
	40 dia haad		1NC (1)		A22NE-M-P002-A	
	40-dia. head Medium Turn-reset A22NE-M-P□□2-A		1NC, 1NO (2)	6 VAC/VDC	A22NE-M-P102-A	
	ALLINE WIT DOLLA		2NC (2)		A22NE-M-P202-A	
	40 11 1		1NC (1)		A22NE-M-P002-B	
	40-dia. head Medium Turn-reset A22NE-M-P□□2-B		1NC, 1NO (2)	12 VAC/VDC	A22NE-M-P102-B	
	AZZINL-IVI-F		2NC (2)		A22NE-M-P202-B	
	40 11 1		1NC (1)		A22NE-M-P002-C	
	40-dia. head Medium Turn-reset A22NE-M-P□□2-C	IP65	1NC, 1NO (2)	24 VAC/VDC	A22NE-M-P102-C	Red
			2NC (2)		A22NE-M-P202-C	
			1NC (1)		A22NE-M-P002-D	
	40-dia. head Medium Turn-reset A22NE-M-P□□2-D		1NC, 1NO (2)	100, 110, 120 VAC	A22NE-M-P102-D	
	AZZINE-IVI-PLLIZ-D		2NC (2)	•	A22NE-M-P202-D	
			1NC (1)		A22NE-M-P002-E	
	40-dia. head Medium Turn-reset		1NC, 1NO (2)	220, 230, 240 VAC	A22NE-M-P102-E	
	A22NE-M-P□□2-E		2NC (2)		A22NE-M-P202-E	

Switch with Integrated Control Box

Appearance	Contact configuration (Number of switch blocks)	Model
	1NC (1)	A22NE-M-P002-N-B
	1NC, 1NO (2)	A22NE-M-P102-N-B
	2NC (2)	A22NE-M-P202-N-B

Subassembled...... The Operation Unit, LED Lamp, Mounting Latches, Switch Blocks, and Lighting Unit can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.



 $\ensuremath{\bigstar}$ Up to three Switch Blocks can be mounted for multiple contacts.

Operation Unit Non-lighted

	Size	Small (30 dia.)	Medium (40 dia.)	Large (60-dia.)
Function	Sealing capability		Single item order model	
Puli-reset	IP65 oil-resistant models		A22NE-MP-N	
	ІР69К		A22NE-MP-N-69K	
Turn-reset	IP65 oil-resistant models	A22NE-S-N	A22NE-MRO-N A22NE-MRO-N-RD A22NE-MRS-N A22NE-MRS-N-RD	A22NE-L-N

Lighted

	Size	Medium (40 dia.)
Function	Sealing capability	Single item order model
		A22NE-M-L
Turn-reset	IP65	

LED lamp				
Appearance	LED light	Rated voltage	Model	Remarks
		6 VAC/VDC	A22NZ-L-RA	These LED lamps are for
		12 VAC/VDC	A22NZ-L-RB	exclusive use with the A22N and the A22NE-P. These are
Red	Red	24 VAC/VDC	A22NZ-L-RC	provided with the completely
	100, 110, 120 VAC	A22NZ-L-RD	assembled set of lighted models. Order LED lamps only	
		<u> </u>	200, 220, 230, 240 VAC	A22NZ-L-RE

Accessories (Order Separately)

Item	Appearance	Contact specifications		Model	Remarks	
Switch Blocks	Po Po	1NO (Blue) Star		A22NZ-S-P1AN	Provided as standard. Order Switch Blocks only when	
(one contact)	A A	1NC (Red)	Standard load	A22NZ-S-P1BN	adding or replacing them.	
Switch Blocks	Par Par	2NC (Red)	Standard load	A22NZ-S-P2BN	Order Switch Blocks only when	
(two contacts)	ace in the second	1NO/1NC (White)	Standard load	A22NZ-S-P2CN	adding or replacing them.	
			-	A22NZ-T-APN		
	The second	12 VAC/VDC		A22NZ-T-BPN	These are provided with the	
Lighting unit		24 VAC/VDC		A22NZ-T-CPN	completely assembled set of lighted models. Order Lighting	
	See 1	100, 110, 120 VAC		A22NZ-T-DPN	Units only when replacing them.	
		200, 220, 230, 240 VAC		A22NZ-T-EPN		
Mounting Latches				A22NZ-H-02	This Mounting Latch is for exclusive use with the A22NE-P. It is provided with the completely assembled set. Order Mounting Latches only when mounting Switch Blocks or Lighting Units that are purchased individually.	
Control Boxes (Enclosures)		One hole, yellow box		A22NZ-A-B01Y	Material: Polycarbonate resin. Can be combined with 1-contact Switch Blocks. (Cannot be combined with 2-contact Switch Blocks.) *	

Note: For details on the accessories common to the screw terminal block types and push-in plus terminal block types, refer to "Common

^{*}The A22NZ-A-B01Y Control Box cannot be used in combination with the A22Z-3476-1 90-dia. Legend Plates for Emergency Stop or the A22Z-EG

E-stop Shrouds.

Common Accessories and Tools

A22NE-P

Specifications

Certified Standard Ratings

- UL508 (File No. E76675), CSA C22.2 No.14
 6 A at 240 VAC, 10 A at 120 VAC
- TÜV (EN60947-5-1) Certified direct opening -(EN60947-5-5)

AC-15 3 A at 240 VAC DC-13 4 A at 24 VDC

CCC (GB14048.5)
 AC-15 3 A at 240 VAC
 DC-13 4 A at 24 VDC

Applicable Standards

UL1059, UL486E (Push-in Plus Terminal Block Types)

Note: Use a 10 A fuse type gl or gG that conforms to IEC60269 as a short-circuit protection device. This fuse is not provided in the main unit

Ratings

Contacts (Standard Load)

Rated	Rated carry Rated		Rated current (A)			
voltage (V)		voltage (V)	AC15 (Inductive load)	AC12 (Resistive load)	DC13 (Inductive load)	DC12 (Resistive load)
		24 VAC	10	10		
600		120 VAC	6	10		
		240 VAC	3	6		
	10	380 VAC	1.9	2		
600	10	440 VAC	1.6	2		
		24 VDC			4	8
		120 VDC			1.1	2.2
		240 VDC			0.55	1.1

Note: 1. The above ratings were obtained by conducting tests under the following conditions.

- (1) Ambient temperature: 20°±2°C
- (2) Ambient humidity: 65±5%
- (3) Operating frequency: 20 operations/minute
- 2. Minimum applicable load: 10 mA at 5 VDC (Resistive load) The operating range may vary depending on the usage conditions and type of load.

Certified Standards

Certification body	Standards	File No.
UL*	UL508, C22.2 No.14	E76675
TÜV SÜD	EN60947-5-1 (Certified direct opening), EN60947-5-5	Consult your OMRON representative for details.
CQC (CCC)	GB14048.5	2017010305959182

Note: Only models with NC contacts have a direct opening mechanism.

*UL-certification for CSA C22.2 No. 14 has been obtained.

LED Lamp

Rated voltage	Operating voltage	Current value
6 VAC/VDC	6 VAC/VDC ± 10%	Approx. 11 mA
12 VAC/VDC	12 VAC/VDC ± 10%	Approx. 12 mA
24 VAC/VDC	24 VAC/VDC ± 10%	Approx. 12 mA
100 VAC	100 VAC ± 10%	
110 VAC	110 VAC ± 10%	Approx. 12 mA
120 VAC	100 VAC to 130 VAC	
200 VAC	200 VAC ± 10%	
220 VAC	220 VAC ± 10%	Approx. 12 mA
230 VAC	230 VAC ± 10%	Appiox. 12 IIIA
240 VAC	220 VAC to 250 VAC	

Characteristics

	Operation	Turn-re	set	Pull-	reset		
		Non-lighted model	Lighted Model	Non-light	ted model		
Item		A22NE-□-P□□□-N	A22NE-M-P	A22NE-MP-P□□□-N	A22NE-MP-P -N-69K		
Allowable operating	Mechanical	30 operations/minute or less (One operation consists of set and reset operations.)					
frequency	Electrical	30 operations/minute or le	ss (One operation cor	nsists of set and reset opera	tions.)		
Insulation resistar	rce *1	100 MΩ min. (at 500 VDC	;)				
Contact resistant	e	100 m $Ω$ max. (initial value	e)				
Between terminals of same polarity*1		2,500 VAC, 50/60 Hz 1 m	inute (initial value)				
strength	Between each terminal and ground	2,500 VAC, 50/60 Hz 1 m	inute (initial value)				
Vibration resistance	Malfunction	10 to 55 Hz, 1.5 mm double amplitude (contact separation within 1 ms)					
Shock resistance	Malfunction	250 m/s² max. (contact separation within 1 ms)					
Mechanical Durability Electrical		300,000 operations min. (One operation consists of set and reset operations.) 100,000 operations min. (One operation consists of set and reset operations.)					
		300,000 operations min. (One operation consists of set and reset operations.)			100,000 operations min. (One operation consists of set and reset operations.)		
Ambient operating	temperature *2	-20 to +70°C	-20 to +55°C	-20 to +70°C	-20 to +70°C *3		
Ambient operating	g humidity	35 to 85% RH	,				
Ambient storage to	emperature *2	-40 to +70°C					
Degree of protect	ion *4	IP65 oil-resistant models *5	IP65	IP65 oil-resistant models *5	IP69K		
Electric shock pro	ection class	Class II					
PTI (tracking cha	racteristic)	175					
Degree of contamination		3 (EN 60947-5-1)					
Minimum direct o	•	11 mm					
Minimum direct op	pening force	45 N					
Conditional short-	circuit current	100 A (EN 60947-5-1)					
Wight (for a 40-di 1NC/1NO Operati		Approx. 55g	Approx. 60g	Approx. 85 g	Approx. 115 g		

- *1. State when an LED is not added between terminals of the same polarity on a lighting unit. Does not apply to lighted-type 100 to 200 V lighting units.
 *2. With no icing or condensation.
 *3. Capable of operation at up to 80°C under IP□9K testing conditions per JIS D 5020.
 *4. The degree of protection from the front of the panel.
 *5. The degree of protection is IP65 even with an integrated control box, but the system is not oil resistant.

Operating Characteristics

Item	Turn-reset	Pull-reset		
item	Lighted / non-lighted models	Non-lighted model	Non-lighted model (Models with IP69K)	
Total travel force (TTF)	45 N max.	60 N max.	70 N max.	
Return force (RF)	0.25N·m * max.	60 N max.	70 N max.	
Total travel (TT)	10 ±1 mm	5.5 ±1 mm	5.5 ±1 mm	

^{*} Rotation torque value.

Terminal Arrangement (BOTTOM VIFW)

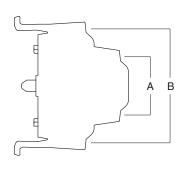
Non-lighted (two contacts)	Non-lighted (three contacts)	Lighted (two contacts)
Terminal (insertion) hole	Terminal (insertion) hole	Terminal (insertion) hole
Switch Blocks	Switch Blocks	Switch Blocks
20	→ 20 →	→ 20 → Lighting unit

Terminal connection

Туре	Terminal Connection (BOTTOM VIEW)								
туре	1NC, 1NO (tw	o contacts)	2NC (t	2NC (two contacts) 2		2NC, 1NO (three contacts)		3NC (three contacts)	
Non-lighted	NC 1 2	NO (3)——(4)	NC 1	NC 1 2	1 (1	(4)	NC (1) (2)	NC NC	
Lighted	(1) (X1)-	(3) (4)	1 2	(1) (1) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4					

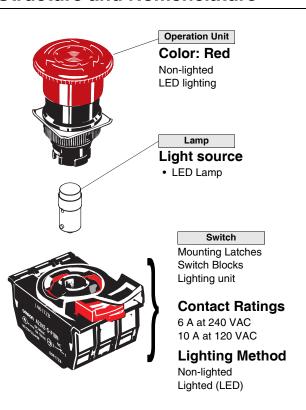
Note: The above terminal connection diagrams are examples for 1NO, 1NC (two contacts), or 2NC (two contacts).

Terminal wiring drawings of two-contact Switch Units



Туре	Terminal Connection (BOTTOM VIEW)					
туре	2NC (two contacts)	1NC, 1NO (two contacts)				
Α	(21)	(21)				
В	11)	(13) / (14)				

Structure and Nomenclature



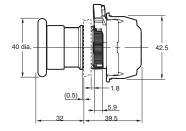
Dimensions (Unit: mm)

Non-lighted Models

A22NE-MP-P□□2-N

Pull-reset (40-dia.) Degree of Protection: IP65 oil-resistant models

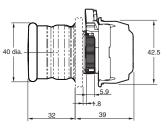




A22NE-MP-P□□2-N-69K

Pull-reset (40-dia.) Degree of Protection: IP69K

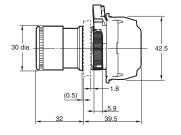




A22NE-S-P□□2-N

Small Turn-reset (30-dia.) Degree of Protection: IP65 oil-resistant models





A22NE-M-P□□2-N

Medium Turn-reset (40-dia.) Degree of Protection: IP65 oil-resistant models



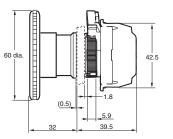


Note: The dimensions the same even if the Operation Unit is replaced with the A22NE-MR \square -N or the A22NE-MR \square -N-RD.

A22NE-L-P□□2-N

Large Turn-reset (60-dia.) Degree of Protection: IP65 oil-resistant models



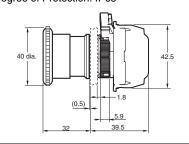


Lighted Model

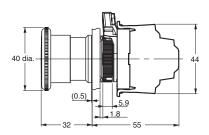


Medium Turn-reset (40-dia.) Degree of Protection: IP65





Dimensions when a two-contact Switch Block is attached

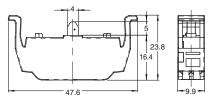


Note: Unless otherwise specified, a tolerance of ± 0.8 mm applies to all dimensions.

Accessories (Order Separately) Switch Block with Push-In Plus technology

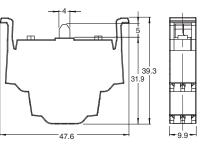
Switch Block (one contact) A22NZ-S-P1□N





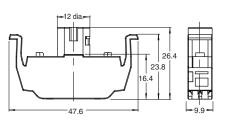
Switch Block (two contacts) A22NZ-S-P2□N





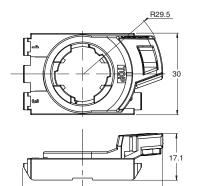
Lighting unit A22NZ-T-□PN





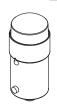
Mounting Latches A22NZ-H-02

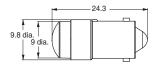




-51.3

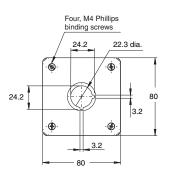
LED Lamp A22NZ-L-□□

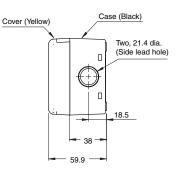


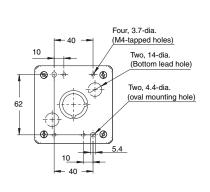


Control Box A22NZ-A-B01Y









Note: For details on the accessories common to the screw terminal block types and push-in plus terminal block types, refer to "Common Accessories and Tools (Order Separately)" on page 51.

Application

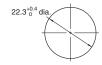
Mounting to the Panel

(1) Preparing the Panel

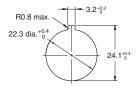
Panel hole dimension and panel thickness

 If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

Panel hole dimension	Panel thickness
22.3 dia.	1 to 5 mm



When using a A22Z-3360 (Order Separately) Lock Ring



For 25-dia.

- Use the A22Z-R25 (Order Separately) rubber ring.
- *Switches with an IP69K degree of protection do not support the 25-dia.



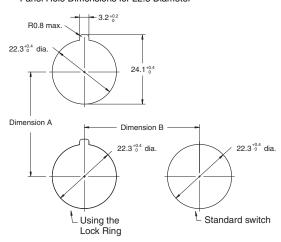
(2) Minimum mounting pitch (Dimension A, Dimension B)

Minimum mounting pitch

Type of operation unit	Dimension A (mm) min.	Dimension B (mm) min.
30-dia., 40-dia. models	50 * 1	50
60-dia. model	70	70

- *1. If the Mounting Collar lock levers all face the same direction at the minimum mounting pitch, be sure to note the order the mounting collars are attached to the Operation Unit.
- ***2.** When using each accessory (Order Separately), set the A and B dimensions in view of the dimensions of the accessories.
- ***3.** Make sure the mounting pitch does not hinder the operation.

Panel Hole Dimensions for 22.3 Diameter

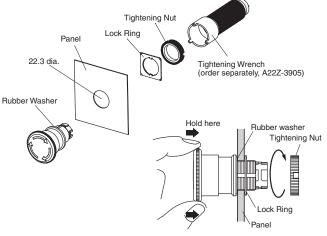


(3) Mounting the Operation Unit on the Panel

- Do not tighten the Tightening Nut more than necessary using tools such as pointed-nose pliers.
- Doing so will damage the Tightening Nut. (The tightening torque of the Tightening Nut is 1.0 to 2.0 N·m.) Tightening Wrench: A22Z-3905

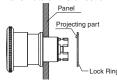
Panel Hole of 22.3-mm Diameter

 Insert the Operation Unit from the front of the panel, insert the Lock Ring and Tightening Nut from the back of the panel, and tighten the Tightening Nut. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



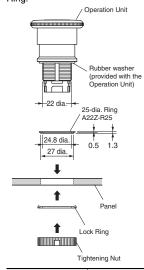
When the A22Z-3360 Lock Ring (Order Separately) is used

• Take note of the direction when mounting the Lock Ring.



Panel Hole of 25-mm Diameter

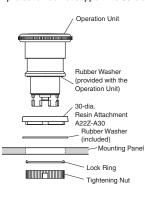
Insert the A22Z-R25 (Order Separately) between the Operation Unit and Panel, and tighten the Tightening Nut. Before tightening, check that the rubber washer supplied with the Operation Unit is present between the Operation Unit and the 25-dia. Bing



Panel Hole of 30-mm Diameter

- Insert the A22Z-A30 (Order Separately) between the Operation Unit and Panel, and tighten the Tightening Nut.
 Before tightening, check that the supplied rubber washer is present between the Operation Unit and the panel, and between the 30-dia.
- Resin Attachment and the panel.

 * Switches with an IP69K degree of protection do not support the 30-dia.

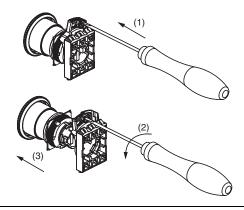


Panel Cutouts	Panel thickness
25 mm dia.	1 to 5 mm
30 mm dia.	1 to 3 mm

Removing the Mounting Latch

When the Mounting Latch is to be Removed

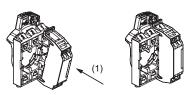
Press the lock lever in from the back side to release the lock, and then hook
the Mounting Collar with a screwdriver, move it in the direction indicated at
(2), and remove it. Turn the lever all of the way until it clicks into place.



Switch Blocks and Lighting Unit

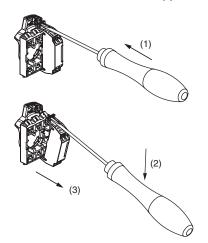
(1) Installing the Switch Blocks and Lighting Unit

 Catch the projection on the opposite side of the Mounting Collar from the lever side and press the Switch Block in the direction indicated at (1).



(2) Removing the Switch Blocks and Lighting Units

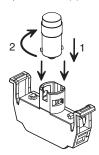
• Insert a screwdriver into the gap between the Mounting Collar and Switch Block and press it inward in the direction shown at (2).



Attaching the LED Lamp to the Lighting Unit

When the LED Lamp is to be Installed

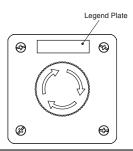
• Insert the protrusions on the LED Lamp into the guides on the Lighting Unit and then turn the LED Lamp in direction (2) to lock it in place.



Control Box

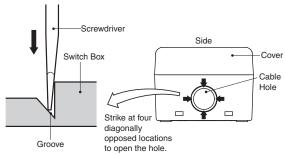
(1) Mounting the Switch

Mount the Switch in the same way as for a standard panel. The tightening torque of the Box screws is 1.4 to 2.0 N·m.



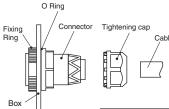
(2) Creating a Cable Hole

To open a cable hole, leave the cover attached, place the tip of a screwdriver in the grooves at four locations around the cable hole, and strike the screwdriver with a hammer to open the hole.



(3) Securing the Connector Cable

- 1. Insert the connector into the cable port hole in the Box and secure with the fixing ring inside the box.
- Pass the tightening cap through the cable, insert the cable into the connector, and tighten the tightening cap to secure the cable.

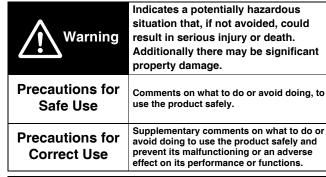


Cable diameter (mm)	Connector
7 to 9 dia.	A22Z-3500-1
9 to 11 dia.	A22Z-3500-2

Safety Precautions

Be sure to read the precautions for All PushButton Switches in the website at: http://www.ia.omron.com/.

Indication and Meaning for Safe Use



⚠ WARNING

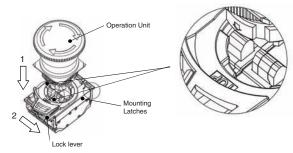
Do not perform wiring with power supplied to the Switch/ Indicator. Do not touch the terminals or other charged parts while power is being supplied. Doing so may result in electric shock.



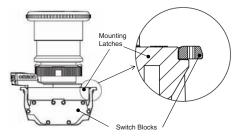
Precautions for Safe Use

 If the Operation Unit is separated from the Switch Units, the equipment will not stop, resulting in a hazardous situation.
 Make sure the Operation Unit, Mounting Latches, and the Switch Units are properly assembled.

<Assembling the Operation Unit and the Mounting Latches> Align the TOP indication (the mark) on the Operation Unit with the TOP indication on the Mounting Latches to fit it properly, and turn the lock lever on the Mounting Latch in the direction shown in the figure below until a clicking sound is heard.



<Assembling the Mounting Latches and Switch Blocks> Make sure the hooking part (convex part) on the Mounting Latches is perfectly latched into the hooking part (concave part) on the Switch Block.



- When transition wiring is performed, make sure the switching current inside the Switch and the current based on the transition wiring is below the rated current of the Switch.
 - If a current value higher than the rated current flows, it could result in emission of heat, or damage and deformation of the Switch, which could cause fire and locking of the contact, and thus a loss of safety.
- Do not disassemble or modify the Switch/Indicator under any circumstances.

- Doing so may prevent the Switch/Indicator from functioning to its full capability. Do not drop the Switch/Indicator. Do not apply pressure that may deform or alter the Switch/Indicator.
- The durability of the Switch varies considerably depending on the switching conditions. Always test the Switch/Indicator under actual working conditions before application and use the Switch/Indicator only for the number of switching operations allowed.
- Do not allow the load voltage and current to exceed the rated value. This may damage or burn out the Switch/Indicator.
- Do not use the Switch/Indicator in locations where explosive or flammable gases or liquid may be present or scattered. The electric ark or the heat caused by switching contacts may cause a fire or explosion.
- Do not use the Switch/Indicator in locations where toxic gases, such as H₂S, SO₂, NH₃, HNO₃, and Cl₂, may be present, or in locations subject to high temperature or humidity. Doing so may damage the Switch/Indicator due to contact failure or corrosion.
- Do not use the Switch/Indicator submersed in oil or water, or in locations continuously subject to splashes of oil or water. Doing so may result in oil or water entering and damaging the Switch/ Indicator.
- Do not use or keep the Switch/Indicator under the following conditions:
 - Subject to severe temperature changes.
 - Subject to high humidity or condensation.
 - Subject to severe vibration or shock.
 - Where direct rays of the sun strike.
 - Where sea breeze may be present.
- Make sure that a rubber washer is present between the Operation Unit and the panel. In models with IP69K, make sure the rubber bush of the Operation Unit is properly attached.
 - Otherwise, the specifications of the protective structure may not be satisfied.
- Do not apply excessive force to the Switch or wirings. Damage or deformation of the Switch Block could cause an improper contact or a loss of safety.
- Use an appropriate wiring and crimp terminals (hereinafter, called ferrule terminals).
- Exercise caution to avoid wiring errors when connecting the terminals
- To prevent wiring materials from smoking or ignition, confirm wire ratings and use the wiring materials given in the following table.

Wire Type	Wire material	Recommended Wire	Wire coating peeling amount
Solid wire/ Stranded Wire	Copper	0.25 to 1.5 mm ² AWG 24 to 16	Ferrules used: 10 to 12 mm (Varies depending on the recommended ferrule conductor length) Ferrules not used: 8 mm

Use wiring crimp terminals and ferrule terminals of the specified

- After storing the product for a long time exceeding 1 year, perform, at a minimum, inspections of the operating characteristics, contact resistance, insulation resistance, and dielectric strength as well as evaluate the product under the working conditions.
- This Switch/Indicator is intended for indoor use only.
 Using the Switch/Indicator outdoors may result in failure.
- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle.
 The terminal block may be damaged if you insert the screwdriver straight in.
- Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force.
- Doing so may cause the wire disconnection.

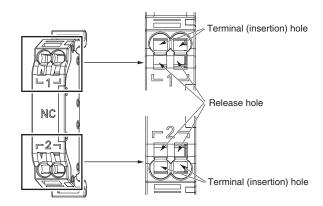
- Do not insert more than one wire into each terminal insertion hole.
- Do not mount A22N-P or A22NE-P Push-In Plus terminal switch blocks on A22N screw terminal blocks. Doing so may result in unsatisfactory performance.
- When mounting on a device with high airtightness, test operation in advance. There is a risk that the negative pressure will prevent the Operation Unit of from returning.
- In the case of loads where an inrush current occurs when the contact is opened or closed, the durability may reduce due to extreme wear on the contacts.

If necessary, insert a contact protection circuit.

Precautions for Correct Use

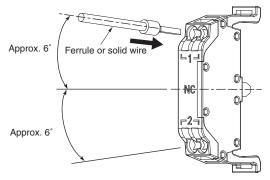
Wiring

1. Connecting Wires to the Push-In Plus Terminal Block Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

- Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block. The angle should be approximately 6°.
- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wires.

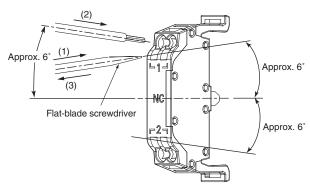


The wiring for the Lighting Unit and Switch Block (2 contacts) are the same as for the Switch Block (1 contact) shown in the above illustration.

Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

- Hold a flat-blade screwdriver at an angle and insert it into the release hole.
 - The angle should be approximately 6°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
- With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until the end strikes the terminal block.
- 3. Remove the flat-blade screwdriver from the release hole.



The wiring and screwdriver angles for the Lighting Unit and Switch Block (2 contacts) are the same as for the Switch Block (1 contact) shown in the above illustration.

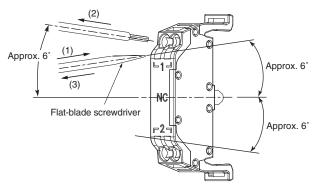
Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and it is securely fastened to the terminal block.
- If you use a ferrule with a conductor length of 10 mm, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

- 1. Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be approximately 6° .
- With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
- 3. Remove the flat-blade screwdriver from the release hole.



The wiring and screwdriver angles for the Lighting Unit and Switch Block (2 contacts) are the same as for the Switch Block (1 contact) shown in the above illustration.

3. Recommended Ferrules and Crimp Tools Coating peeling amount

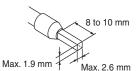
Recommend Wire Type	Stripping length (Ferrules not used)
0.25 to 1.5 mm ² /AWG 24 to AWG 16	8 mm

Recommended ferrules

Appli wi		Ferrule conductor	Stripping	Recommended ferrules			
(mm²)	(AWG)	length (mm)	length (mm) (Ferrules not used)	Phoenix Contact product	Weidmuller product	Wago product	
0.25	24	8	10	AI 0, 25-8	H0.25/12	216-301	
0.25	24	10	12	AI 0, 25-10			
0.34	22	8	10	AI 0, 34-8	H0.34/12	216-302	
0.34	22	10	12	AI 0, 34-10			
0.5	20	8	10	AI 0, 5-8	H0.5/14	216-201	
0.5	0.5 20	10	12	AI 0, 5-10	H0.5/16	216-241	
0.75	0.75 18	8	10	AI 0, 75-8	H0.75/14	216-202	
0.75		10	12	AI 0, 75-10	H0.75/16	216-242	
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203	
1/1.23	10/17	10	12	AI 1-10	H1.0/16	216-243	
1.25/1.5	17/16	8	10	Al 1, 5-8	H1.5/14	216-204	
1.20/1.0	17/10	10	12	Al 1, 5-10 H1.5/16		216-244	
Recom	mended	Crimp Tool	S	CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocri mp4	

Note: 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.

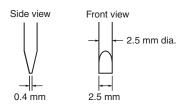
2. Make sure that the ferrule processing dimensions conform to the following figures.



Recommended Flat-Blade Screwdrivers

Use a flat-blade screwdriver to connect and remove wires.
Use one of the following flat-blade screwdrivers.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacture
ESD 0,40 × 2,5	Wera
SZS 0,4 × 2,5 SZF 0-0,4 × 2,5 *	Phoenix Contact
0.4 × 2.5 × 75 302	Wiha
AEF.2,5 × 75	Facom
210-719	Wago
SDI 0,4 × 2,5 × 75	Weidmuller

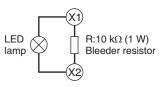
- *The SZF 0-0,4 x 2,5 (manufactured by Phoenix Contact) can be procured through an OMRON exclusive purchase form (XW4Z-00B).
- After wiring the Switch/Indicator, provide a sufficient insulation distance.

LED Lamps

- A current-limiting resistor is built in the LED lamp, so the installation of an external resistance is not required.
- Lighting malfunction of the LED lamp
 A micro-current of approximately 0.1 mA or less is sufficient to turn
 on the LED lamps. Take a countermeasure like adding a resistor
 to prevent mis-lighting in parallel to the LED lamp.

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.

(Example of lighting malfunction prevention circuit) When using a 24-VAC/VDC lighted unit



Be sure to read the "Safety Precautions" on page 56.

CE c U us LISTED (((S)

Emergency Stop Pushbutton Switches (22-dia. or 25-dia.) Screw Terminal Block types

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

(When Using a Ring)

- · Removal contact blocks provide an easy way of assembling the emergency stop push button.
- Mounted using either open-type (fork-type) or closed-type (round-type) 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.



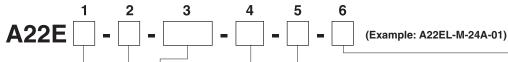
Be sure to read the "Safety Precautions" on pages 50 and 56.

Model Number Structure

Model Number Legend (Completely Assembled)

For the most recent information on models that have been certified for safety standards, refer to your Omron website.

Shipped as a set which includes the Operation Unit, LED Lamp (lighted model only), Mounting Latches, Switch Block, and Lock Plate



1. Lighted/Non-lighted

		. ★ Lighted Emergency
Code	Description	Stop Switches are
None	Non-lighted	available only for the medium (M). turn-reset
L	Lighted *	models.

2. Operation Unit size (diameter)/Reset function

set
set

3. LED Lamp voltage

Lighting unit (Direct lighting)

Code	Description	Operating Voltage
None	Non-lighted	
6 A		6 VAC/DC
12 A	Lighted (LED) *	12 VAC/DC
24 A	(225) 4	24 VAC/DC

Lighting unit (Voltage-reduction lighting)

Code	Description	Operating Voltage
T1	Lighted	100 VAC
T2	(LED) *	200 VAC

^{*} Equipped with 24-VAC/DC LED.

4. Contacts

	Number of			Unit position				
Code	Switch	Blocks	No	Non-lighted		Lighted		
	NO	NC	1	2	3	1	2	3
01	0	1	NC			NC		Lighting unit
11	1	1	NC	NO		NC	NO	Lighting unit
02	0	2	NC	NC		NC	NC	Lighting unit
12	1	2	NC	NO	NC			
03	0	3	NC	NC	NC			

Note 1. NO: 1a-contact NC: 1b-contact

2. For details on the unit position, refer to the figure below.



5. Configuration

Code	Configuration
None	Switch only
В	Switch with Integrated Control Box

6. Configuration

Code	Configuration
None	Neither "EMO" nor "EMS" printed, arrows engraved in red.
EMO	"EMO" and arrows printed in white.
EMO-RD	"EMO" printed in white, arrows engraved in red.
EMS	"EMS" and arrows printed in white.
EMS-RD	"EMS" printed in white, arrows engraved in red.

Ordering Information

List of Models (Completely Assembled)

Non-lighted Models (Without EMO/EMS Indication)

Appearance	Operation	Degree of Protection	Contact configuration *1	Set Model	Color of cap
4	40-dia. head		1NC (1)	A22E-MP-01	
	Medium Pull-reset		1NC, 1NO (2)	A22E-MP-11	
	A22E-MP		2NC (2)	A22E-MP-02	
			1NC (1)	A22E-S-01 *2	
	30-dia. head		1NC, 1NO (2)	A22E-S-11 *2	
	Small Turn-reset		2NC (2)	A22E-S-02 *2	
O July	A22E-S		2NC, 1NO (3)	A22E-S-12 *2	
		2	3NC (3)	A22E-S-03 *2	Red
			1NC (1)	A22E-M-01 *2	neu
	40-dia. head Medium Turn-reset A22E-M		1NC, 1NO (2)	A22E-M-11 *2	
			2NC (2)	A22E-M-02 *2	
			2NC, 1NO (3)	A22E-M-12 *2	
			3NC (3)	A22E-M-03 *2	
	60-dia. head Large Turn-reset A22E-L		1NC (1)	A22E-L-01 * 2	
			1NC, 1NO (2)	A22E-L-11 * 2	
			2NC (2)	A22E-L-02 *2	

^{*1.} The number in parentheses () indicates the number of switch units.

*2. Models with Korean S-mark certification

Note: Yellow cap models are also available (not for emergency stop use). Contact your OMRON representative.

Non-lighted Models (With EMO/EMS Indication)

Appearance	Operation	Degree of Protection	Contact configuration *1	Set Model	Color of cap
			1NC (1)	A22E-M-01-EMO *2	
			1NC (1)	A22E-M-01-EMO-RD	
			100 100 (0)	A22E-M-11-EMO *2	
			1NC, 1NO (2)	A22E-M-11-EMO-RD	
	40-dia. head Medium Turn-reset		ONC (O)	A22E-M-02-EMO *2	
	With EMO Indication	IP65 oil-resistant models	2NC (2)	A22E-M-02-EMO-RD	
EWOJ			ONIC 1NIC (2)	A22E-M-12-EMO *2	- Ded
_			2NC, 1NO (3)	A22E-M-12-EMO-RD	
			3NC (3)	A22E-M-03-EMO *2	
				A22E-M-03-EMO-RD	
	40-dia. head Medium Turn-reset With EMS Indication		1NC (1)	A22E-M-01-EMS *2	Red
				A22E-M-01-EMS-RD	
			1NC, 1NO (2)	A22E-M-11-EMS *2	
M				A22E-M-11-EMS-RD	
			2NC (2)	A22E-M-02-EMS *2	
EMS				A22E-M-02-EMS-RD	
			ONIO 4NIO (0)	A22E-M-12-EMS *2	
			2NC, 1NO (3)	A22E-M-12-EMS-RD	1
			ONO (0)	A22E-M-03-EMS *2	
			3NC (3)	A22E-M-03-EMS-RD	

^{*1.} The number in parentheses () indicates the number of switch units.

NO (a-contact): Black NC (b-contact): Red

The above illustration shows the 2NC (2b-contact) configuration.

^{*2.} Models with Korean S-mark certification Note: The colors of switch blocks are as follows:

Lighted Models

Appearance	Operation	Degree of Protection	Contact configuration *1	LED Lamp voltage	Set Model	Color of cap
				6 VAC/VDC	A22EL-M-6A-01 *2	Red
			1NC (1)	12 VAC/VDC	A22EL-M-12A-01 *2	
_	40 11 1	1NC, 1NO (2) 1P65 2NC (2) 1NC (1) 1NC, 1NO (2) 2NC (2)		24 VAC/VDC	A22EL-M-24A-01 *2	
	40-dia. head Push-lock Turn-reset		1NC, 1NO (2)	6 VAC/VDC	A22EL-M-6A-11 *2	
	Lighting unit (Direct lighting) A22E			12 VAC/VDC	A22EL-M-12A-11 *2	
				24 VAC/VDC	A22EL-M-24A-11 *2	
			2NC (2)	6 VAC/VDC	A22EL-M-6A-02 *2	
				12 VAC/VDC	A22EL-M-12A-02 *2	
				24 VAC/VDC	A22EL-M-24A-02 *2	
	40-dia. head Push-lock Turn-reset Lighting unit (Voltage-reduction lighting) A22E		1NC (1)	100 VAC	A22EL-M-T1-01	
				200 VAC	A22EL-M-T2-01	
			100 100 (0)	100 VAC	A22EL-M-T1-11	
			INC, INC (2)	200 VAC	A22EL-M-T2-11	
			2112 (2)	100 VAC	A22EL-M-T1-02	
			200 VAC	A22EL-M-T2-02	1	

^{*1.} The number in parentheses () indicates the number of switch units.

Switch with Integrated Control Box

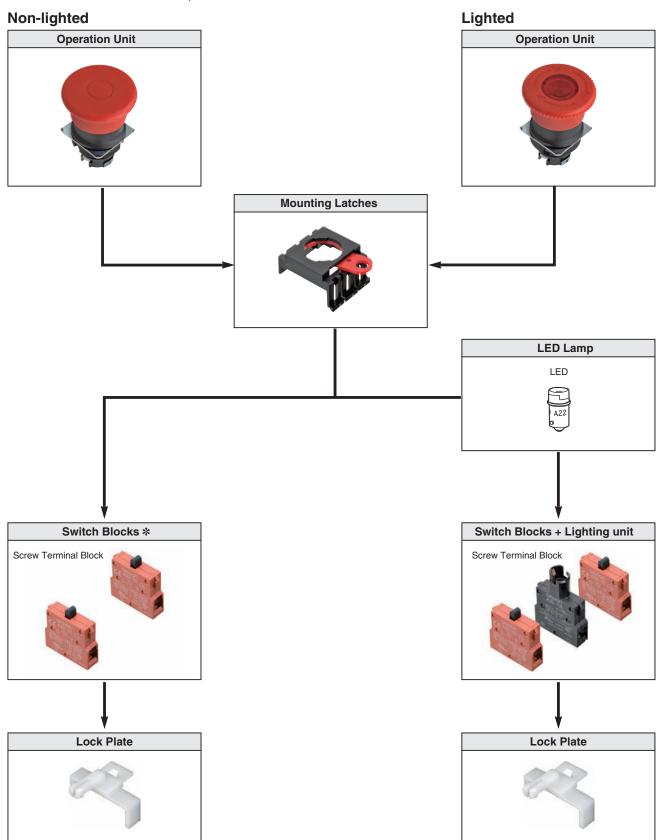
Appearance	Contact configuration (Number of switch blocks)	Model
	1NC (1)	A22E-M-01B *
	1NC, 1NO (2)	A22E-M-11B *
	2NC (2)	A22E-M-02B *

Note: The A22Z-B101Y Control Box is used. *Models with Korean S-mark certification

^{*2.} Models with Korean S-mark certification



Subassembled The Operation Unit, LED Lamp, Mounting Latches, and Switch Blocks can be ordered separately. Use them in combination for models that are not available as assembled Units. These can also be used as inventory for maintenance parts.



* Up to three Switch Blocks can be mounted for multiple contacts.

Operation Unit Non-lighted

_	Size	Small (30 dia.)	Medium (40 dia.)	Large (60 dia.)
Function	Sealing capability	Single item order model		
Pull-reset			A22E-MP	
Turn-reset	IP65 oil-resistant models	A22E-S	A22E-M-EMO A22E-M-EMO-RD A22E-M-EMS A22E-M-EMS-RD	A22E-L

Lighted

	Size	Medium (40 dia.)
Function	Sealing capability	Single item order model
		A22EL-M
Turn-reset	IP65	

LED lamp

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

Note: For a model with a Lighting unit (Voltage-reduction lighting), use the A22-24AR.

Common Accessories and Tools

Switch Non-lighted / Direct lighting

Classification		Non-lighted	Direct lighting
	Appearance		
Contact specifications/ Configuration (Number of switch blocks)		Model	Model
	1NC (1)	A22-01M	A22L-01M
For Standard loads	1NC, 1NO (2)	A22-11M	A22L-11M
	2NC (2)	A22-02M	A22L-02M

Voltage-reduction lighting (100 VAC, 200 VAC)

Classification		100 VAC, Lighted	200 VAC, Lighted
	Appearance		
Contact specifications/ Configuration (Number of switch blocks)		Model	Model
	1NC (1)	A22L-01M-T1	A22L-01M-T2
For Standard loads	1NC, 1NO (2)	A22L-11M-T1	A22L-11M-T2
	2NC (2)	A22L-02M-T1	A22L-02M-T2

Note: For a model with a Lighting unit (Voltage-reduction lighting), use the A22-24AR.

Accessories (Order Separately)

Item	Appearance	Contact spec	cifications	Model	Remarks
		1NO (Black)	Standard load	A22-10	
Switch Blocks		TNO (Black)	Microload	A22-10S	Provided as standard. Order Switch Blocks only when adding or replacing them.
(one contact)	The second second	1NC (Pad)	Standard load	A22-01	
		1NC (Red)	Microload	A22-01S	
		2NO (Black)	Standard load	A22-20	
		ZNO (Black)	Microload	A22-20S	
Switch Blocks		2NC (Red)	Standard load	A22-02	Order Switch Blocks only when
(two contacts)	10 10 10	ZNC (Red)	Microload	A22-02S	adding or replacing them.
		1NC + 1NO	Standard load	A22-11	
		Contact (Black/ Red)	Microload	A22-11S	
		Direct lighting		A22-TN	
Lighting unit		Voltage-reduction lighting	100 VAC	A22-T1	Used when changing the lighting method.
			200 VAC	A22-T2	
Mounting Latches				A22-3200	Provided as standard. Order Mounting Latches only when mounting Switch Blocks or Lighting Units that are purchased individually.
Lock Plate				A22Z-3380	Use to fix the lever on the Switch.
Control Boxes		One hole, yellow box		A22Z-B101Y	Material: Polycarbonate resin. When using a Control Box, 2NO,
(Enclosures)				A22Z-B201Y	2NC, or 1NC + 1NO two-contact Switch Blocks are not supported. *

Note: For details on the accessories common to the screw terminal block types and push-in plus terminal block types, refer to "Common Accessories and Tools (Order Separately)" on page 51.

* The A22NZ-B101Y and A22NZ-B201Y Control Box cannot be used in combination with the A22Z-3476-1 90-dia. Legend Plates for Emergency

Stop or the A22Z-EG□ E-stop Shrouds.

Specifications

Certified Standard Ratings

- UL, cUL (File No. E41515) 6 A 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

Ratings

Contacts (Standard Load)

Rated carry	Rated	Rated current (A)			
current (A)	voltage (V)	AC15 (Inductive load)	AC12 (Resistive load)	DC13 (Inductive load)	DC12 (Resistive load)
	24 VAC	10	10		
	110 VAC	5	10		
	220 VAC	3	6		
	380 VAC	2	3		
10	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

Certified Standards

Certification body	Standards	File No.
UL *1	UL508, C22.2 No.14	E41515
TÜV SÜD	EN60947-5-1 (Certified direct opening), EN60947-5-5	Consult your OMRON representative for details.
CQC (CCC)	GB14048.5	2003010303070635
KOSHA *2	EN60947-5-1	Consult your OMRON representative for details.

- Note: 1. Only models with NC contacts have a direct opening mechanism.
 - 2. A fuse is not provided.
- *1. UL-certification for CSA C22.2 No. 14 has been obtained. Certification has been obtained for individual Switch Blocks and Lighting Units.
- *2. Some models have been certified.

LED Lamp

Rated voltage	Operating voltage	Current value
6 VAC/VDC	6 VAC/VDC ± 5%	
12 VAC/VDC	12 VAC/VDC ± 5%	Approx. 8 mA
24 VAC/VDC	24 VAC/VDC ± 5%	

Voltage-reduction lighting

Rated voltage	Operating voltage	Rated current	Applicable lamp (BA9S/Base: 13)
110 VAC	100 VAC (95 to 115 V)	Approx. 8 mA	LED lamp
220 VAC	200 VAC (190 to 230 V)	Approx. 6 IIIA	A22-24A□

Characteristics

Туре		Turn-reset		Pull-reset	
Item		Non-lighted model	Lighted model	Non-lighted model	
Allowable operating	Mechanical	30 operations/minute (One operation consists of set and reset operations.)			
frequency	Electrical	30 operations/minute (One o	pperation consists of set and res	et operations.)	
Insulation resistance		100 MΩ min. (at 500 VDC)			
Contact resistance		100 m $Ω$ max. (initial value)			
Dielectric strength	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		10 to 55 Hz, 1.5-mm double an	nplitude (contact separation with	in 1 ms)	
Shock resistance	Destruction	1000 m/s ²			
Onock resistance	Malfunction	250 m/s² max. (contact separation within 1 ms)			
Durability	Mechanical	300,000 operations min. (One operation consists of set and reset operations.)			
Durability	Electrical	300,000 operations min. (One operation consists of set and reset operations.)			
Ambient operating temp	erature *1	-20 to +70°C	-20 to +55°C	-20 to +70°C	
Ambient operating humi	dity	35 to 85% RH			
Ambient storage temper	ature	-40 to +70°C			
Degree of protection		IP65 oil-resistant models *2 *3	IP65 *2	IP65 oil-resistant models *2 *3	
Electric shock protection	n class	Class II			
PTI (tracking characteristic)		175			
Degree of contamination		3 (EN60947-5-1)			
Minimum direct opening	stroke	11 mm			
Minimum direct opening	force	45 N			
Conditional short-circuit	t current	100 A (EN 60947-5-1)			
Weight (for a 40-dia. head 1NC/1NO Operation Unit)		Approx. 65 g	Approx. 80 g	Approx. 100 g	

- *1. With no icing or condensation.
- ***2.** The degree of protection from the front of the panel.
- *3. The degree of protection is IP65 even with an integrated control box, but the system is not oil resistant.

Operating Characteristics

Item	Turn-reset	Pull-reset
Total travel force (TTF)	44.1 N max.	58.8 N max.
Return force (RF)	0.25 N⋅m max. *	58.8 N max.
Total travel (TT)	10 ±1 mm	5.5 ±1 mm

^{*}Rotation torque value.

Terminal Arrangement (BOTTOM VIEW)

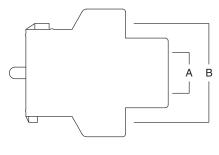
Non-lighted (two contacts)	Non-lighted (three contacts)	Lighted (two contacts)
M3.5 screws Switch Blocks	Switch Blocks	Switch Blocks Lighting unit

Terminal connection

Type	Terminal Connection (BOTTOM VIEW)			
Type	1NC, 1NO (two contacts)	2NC (two contacts)	2NC, 1NO (three contacts)	3NC (three contacts)
Non-lighted	Z (1) ———————————————————————————————————	NC NC 1 1 2 2	NC NC NO 1 1 3 2 2 4	NC NC NC 1 1 1 1 2 2 2 2
Lighted with Direct lighting	(1) (3) (3) (2) (2) (4)	① X1 ① ① ② ② ② ②		
Lighted with Voltage-reduction lighting		1	_	

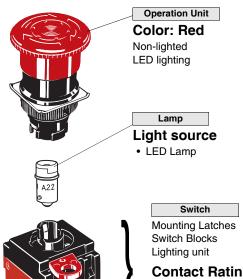
Note: The above terminal connection diagrams are examples of the number of contacts.

Terminal wiring drawings of two-contact Switch Units



Туре	Terminal Connection (BOTTOM VIEW)				
туре	2NC (two contacts)	2NO (two contacts)	1NC, 1NO (two contacts)		
Α	(21)	(23)	(23)		
В	11)	(13)	11)		

Structure and Nomenclature

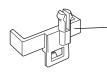


Contact Ratings

10 A at 100 VAC (resistive load) 10 A at 24 VDC (resistive load)

Lighting Method

Non-lighted Lighted (Direct lighting) Lighted (Voltage-reduction lighting)

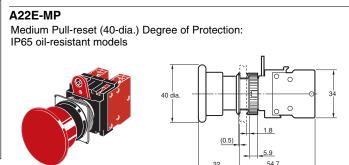


Lock Plate (Attached with the Operation Unit)

(Refer to the "Mounting the Lock Plate" on page 50 for use.)

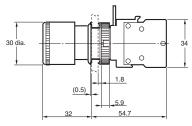
Dimensions (Unit: mm)

Non-lighted Models



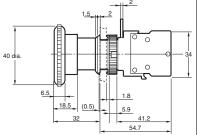
A22E-S

Small Turn-reset (30-dia.) Degree of Protection: IP65 oil-resistant models



Medium Turn-reset (40-dia.) Degree of Protection: IP65 oil-resistant models

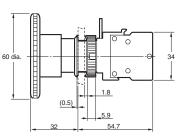




Note: The dimensions are the same as for EMO/EMS indication models.

Large Turn-reset (60-dia.) Degree of Protection: IP65 oil-resistant models

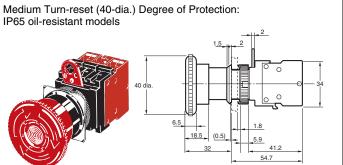




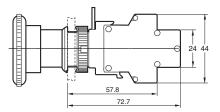
Note: Unless otherwise specified, a tolerance of ±0.8 mm applies to all dimensions.

Lighted Model

A22EL-M



Switch dimensions when mounted to a 2NO (2NC) one-piece switch block



Note: The operation unit is an example for the A22E-M.

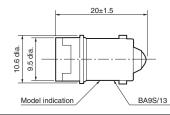
Note: Unless otherwise specified, a tolerance of ± 0.8 mm applies to all dimensions.

Accessories (Order Separately)

LED Lamp

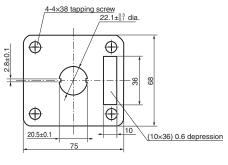
A22-6□, 12□, 24□

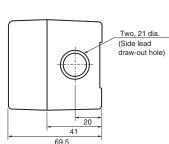




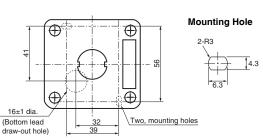
Control Box

A22Z-B101Y (1-hole)



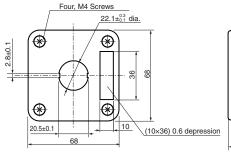


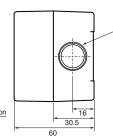
Cable Draw-out Hole (Top View)



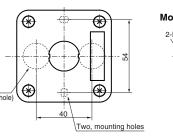
Control Box

A22Z-B201Y (1-hole)





Cable Draw-out Hole (Top View)





Note: For details on the accessories common to the screw terminal block types and push-in plus terminal block types, refer to "Common Accessories and Tools (Order Separately)" on page 51.

Two, 21 dia.

(Side lead draw-out hole)

Two, 19±1 dia

Common Accessories and Tools

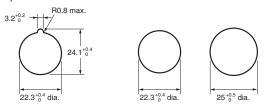
A22E

Installation

Mounting to the Panel

(1) Preparing the Panel

- The panel dimensions are shown below.
- The panel thickness must be 1 to 5 mm.



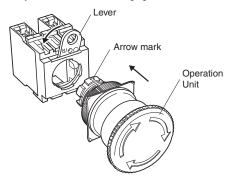
With Lock Ring

Without Lock Ring

- Always use a 25-mm-dia. A22Z-R25 Lock Ring for a 25-mm-dia. hole.
 IP65 degree of protection will be lost if the 25-mm-dia. Lock Ring is not used because of the larger size of a 25-mm-dia. hole.
- When painting or coating the panel, make sure that the specified panel dimensions apply to the panel after painting or coating.

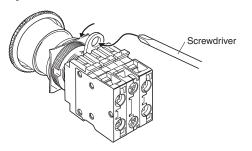
(3) Mounting the Switch on the Operation Unit

 Insert the Operation 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.



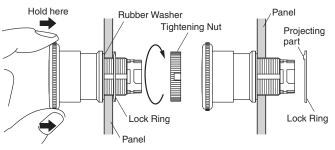
(4) Removing the Switch

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

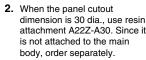


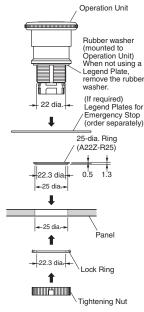
(2) Mounting the Operation Unit on the Panel

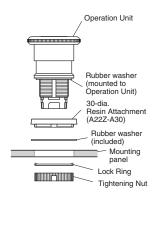
- Insert the Operation Unit from the front surface of the panel, insert the Lock Ring and the Tightening Nut from the terminal side, then tighten the Ring. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.
- Align the Lock Ring with the groove in the casing, then insert the Lock Ring so that its edge is located on the panel side.
- Tighten the Tightening Nut at a torque of 1.0 to 2.0 N·m.
- When using a Lock Ring, replace with the supplied Lock Ring, insert the projecting part into the lock slot, and then tighten the Tightening Nut.



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



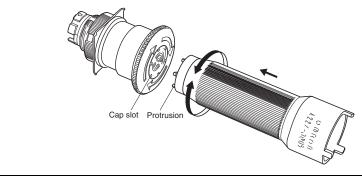




Assembling the Cap

Emergency Stop Switch

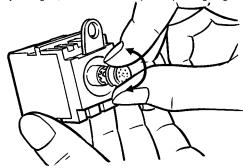
• Insert the protrusion of the Tightening Wrench (A22Z-3905) into the Cap slot and then turn to remove the Cap.



Installing/Replacing the LED Lamp

Installing/Replacing on the Switch

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



Control Box (Enclosure)

(1) Mounting the Switch The Standard-size Legend Plate Frame can

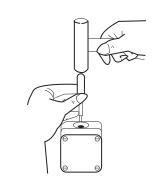
Mount the Frame as shown in the following diagram. Mount the Switch in the same way as for an ordinary panel.



(2) Creating a Cable Port Hole

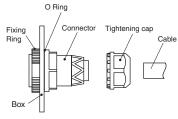
Place the tip of a screwdriver on the surface where the cable port hole is to be created with the cover attached and strike the screwdriver to punch a hole.

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



(3) Securing the Connector Cable

- Insert the connector into the cable port hole in the Box and secure with the Mounting Ring inside the box.
- Pass the tightening cap through the cable, insert the cable into the connector, and tighten the tightening cap to secure the cable.

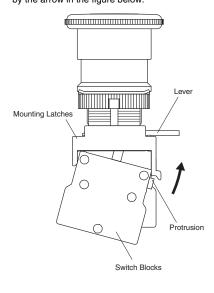


Cable diameter (mm)	Connector
7 to 9 dia.	A22Z-3500-1
9 to 11 dia.	A22Z-3500-2

Installing/Removing the Switch Blocks

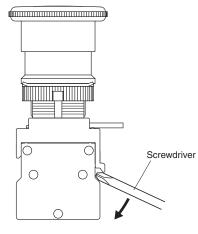
(1) Installing the Switch Blocks

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



(2) Removing the Switch Blocks

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



Use either of the following screwdrivers.

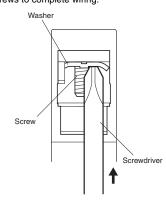
→ Flat-head screwdriver 3 to 6 mm
 → Phillips screwdriver 3 to 6 mm dia.

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.



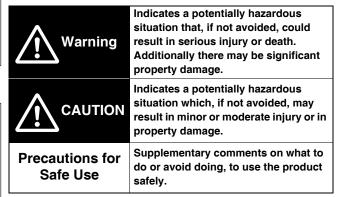
Common Accessories and Tools

A22E

Safety Precautions

Be sure to read the precautions for All PushButton Switches in the website at:http://www.ia.omron.com/.

Indication and Meaning for Safe Use



WARNING

Do not perform wiring with power supplied to the Switch/ Indicator. Do not touch the terminals or other charged parts while power is being supplied. Doing so may result in electric shock.



Caution

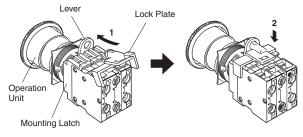
If the Operation Unit is separated from the Socket Unit, the equipment will not stop, creating a hazardous condition. Secure the lever on the Socket Unit by using the A22Z-3380 Lock Plate so that the Operation Unit cannot be easily separated from the Socket Unit. (Refer to "Mounting the Lock Plate" at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



Precautions for Correct Use

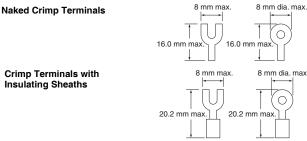
Mounting the Lock Plate

- 1. 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.



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

LED Lamps

- 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.

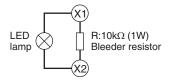
Mis-lighting of the LED

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



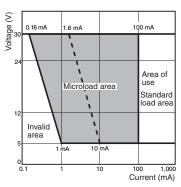
• Do not use a lamp that does not satisfy the rating.

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, λ 60 = 0.5 x 10⁻⁶/time indicates that the estimated malfunction rate is less than 1/2,000,000 with a reliability level of 60%.



Be sure to read the "Safety Precautions" on page 56.

Common Accessories and Tools (Order Separately)

Ordering Information

Common to Push-in Plus Terminal Block types (A22NE-PD/A22NE-P)/Screw Terminal Block types (A22E)

Item	Appearance	Classific	ation	Model	Remarks
	SERGENC	60-dia. black lette back-ground	60-dia. black letters on yellow back-ground		Used in combination with the rubber packing when the level of protection is to be met between panels. *1
Legend Plates for Emergency Stop	STOP	90-dia. black letters on yellow back-ground		A22Z-3476-1	Used in combination with the rubber packing when the level of protection is to be met between panels. \$1 \$3\$
	OFF OFF	60-dia. black letters on yellow background		A22Z-3466-2	Used in combination with the rubber packing when the level of protection is to be met between panels. *1
Hole Plug		Round		A22Z-3530	Used for covering the panel cutouts for future panel expansion Black color.
Connectors		Applicable cable	7 to 9 dia.	A22Z-3500-1	Plastic connector used to extend a cable from the Switch Bo (Refer to page 15, 32, and 49).
		diameter	9 to 11 dia.	A22Z-3500-2	
25-dia. Ring	0			A22Z-R25	Use when mounting to a panel with a 25-dia. hole. (Refer to pag 15, 31, and 48). Material: Rubber, Level of protection: IP65
30-dia. Resin Attachment				A22Z-A30	Use when mounting to a panel with a 30-dia. hole. (Refer to pag 15, 31, and 48). A rubber packing is provided with the product.
Lock Ring	0			A22Z-3360	The body is equipped with a Lock Ring. This Lock Ring is used when a more secure lock feature is required. (Refer to page 15 and 31).
Fightening Tool				A22Z-3905	Used for tightening the tightening nut from the back side of the panel, and for removing the cap in lighted models.
E-stop Shroud for EMO, Yellow	EMERG RES			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 a A22E Emergency Stop Switch (for emergency shutoff) *2 *3
E-stop Shroud for EMO, Yellow		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) *3
E-stop Shroud for EMS, White	E MERGO CO			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) \$2 \$3
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) *3
E-stop Shroud, Yellow		Spacer Unit is not included. One Spacer Unit is included.		A22Z-EG2	SEMI-S2/SEMATECH APPLICATION GUIDE FOR SEMI
				A22Z-EG21	SEMI-52/SEMATECH APPLICATION GUIDE FOR SEMI S2-compatible Shroud. (for emergency shutoff) *2 *3 Use together with an A22E Emergency Stop Switch.
		Two Spacer Units	Two Spacer Units are included.		Ose together with all AZZE Efficiency Stop Switch.
E-stop Shroud for EMO, Yellow	EMERGO OF			A22Z-EG3	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 a A22E Emergency Stop Switch.(for emergency shutoff) *2 *3
Rubber Packing		-		A22Z-R	Used together with accessories. Contains 10 packings.

^{*1.} If you use Legend Plates for Emergency Stop, set the thickness of the panels between 1 to 4 mm.

^{*2.} 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).

^{*3.} The Control Boxes cannot be used in combination with the A22Z-3476-1 Legend Plates for Emergency Stop or the A22Z-EG□ E-stop Shrouds.

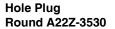
Note: 1. Accessories for A22Z-EG1: one "EMERGENCY OFF" label, two rubber packings, and one lock ring

^{2.} Accessories for A22Z-EG10: one rubber packing and one lock ring (without label)

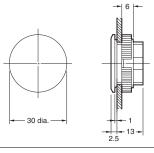
A22NE-PD/A22NE-P/A22E

Dimensions (Unit: mm)

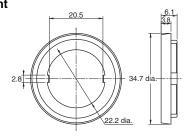
Screw Terminal Block Type/Push-in Plus Terminal Block Type







30-dia. Resin Attachment A22Z-A30



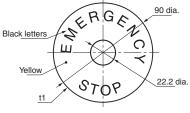
Legend Plates for Emergency Stop

A22Z-3476-1 (90 dia.)

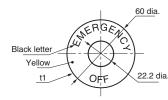
A22Z-3466-1 (60 dia.)

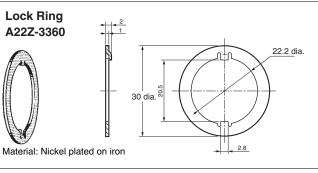
A22Z-3466-2 (60 dia.)



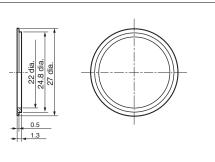






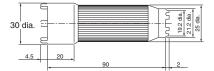






Tightening Tool

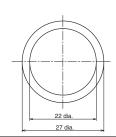




Rubber Packing

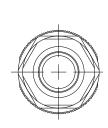


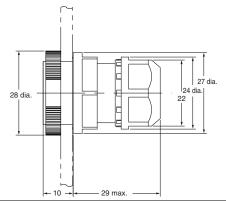




Connector A22Z-3500



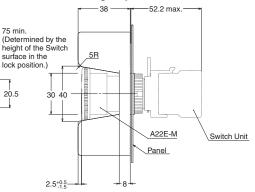




Common E-stop Shrouds A22Z-EG1, A22Z-EG1-W, A22Z-EG10, A22Z-EG10-W

2.8 lock position.) 22.2 dia 78 dia 20.5 90 dia.

Screw Terminal Block type Mounting a 1-pole Switch Unit



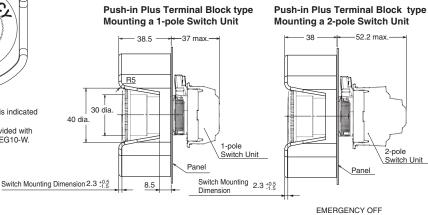
Note: 1. The dimensions of the Shroud conform to the specifications of the SEMATECH Application Guide for SEMI S2-93.

2. The Shroud is not provided with the Switch.

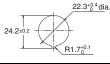


"EMERGENCY STOP" is indicated on A22Z-EG1-W. Legend plate is not provided with A22Z-EG10 and A22Z-EG10-W.

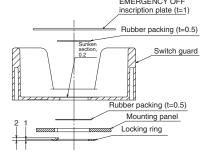
Push-in Plus Terminal Block type



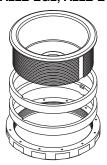
Panel Cutout Dimensions

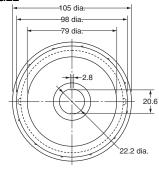


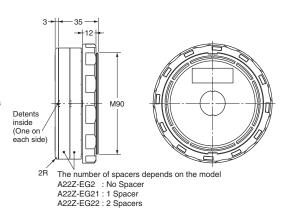
Model	Allowable panel thickness [mm]
A22NE-PD series	1 to 1.8
A22NE-P series	1 to 2 0
A22E series	1 10 2.0



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

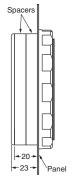




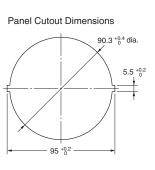


During spacer attachment

With 1 Spacer



With 2 Spacers



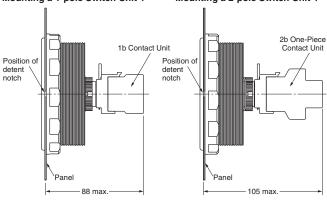
Note: 1. The dimensions of the Shroud conform to the specifications of the SEMATECH Application Guide for SEMI S2-93.

- 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

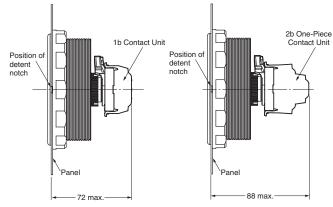
Screw Terminal Block Type Mounting a 1-pole Switch Unit *

Screw Terminal Block Type Mounting a 2-pole Switch Unit *



Push-in Plus Terminal Block Type Mounting a 1-pole Switch Unit *

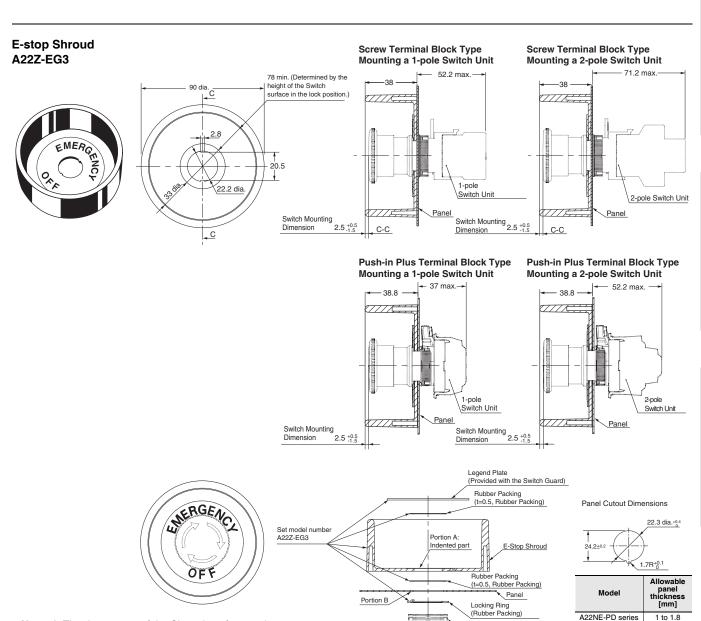
Push-in Plus Terminal Block Type Mounting a 2-pole Switch Unit *



^{*} These are the dimension from the front of the panel when the Switch Unit is attached.

A22NE-PD/A22NE-P/A22E

1 to 2.0



specifications of the SEMATECH Application Guide for

Note: 1. The dimensions of the Shroud conform to the

SEMI S2-93.

2. The Shroud is not provided with the Switch.

Mounting Nut (Provided with the Operation Unit)

A22NE-P series

A22E series

A22E/A22NE-P

Safety Precautions

Be sure to read the precautions for All PushButton Switches in the website at:http://www.ia.omron.com/.

Indication and Meaning for Safe Use

Precautions for Safe Use

Supplementary comments on what to do or avoid doing, to use the product safely.

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 tightening nut more than necessary by using tools such as pointed-nose pliers. Doing so could damage the tightening nut. (The tightening torque is 1.0 to 2.0 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 to 0.78 N·m.

Operating Environment

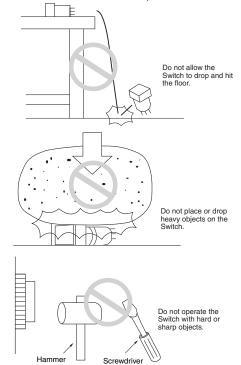
- This model is designed with a protective structure so that it will not sustain damage if it is subjected to water from any direction to the front of the panel.
- The Switch is intended for indoor use only. Using the Switch outdoor may cause it to fail.

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.





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• Programming & Configuration • Runtime

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A2633I-E3-06 Note: Specifications are subject to change.

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