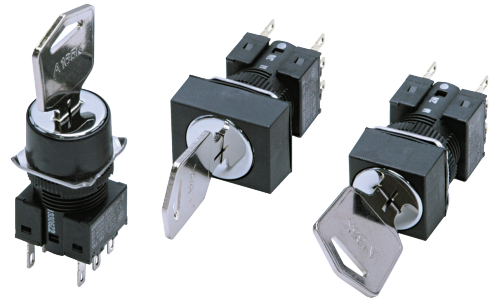


A165K

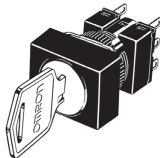
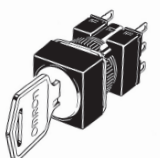
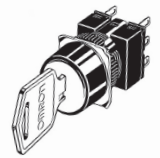
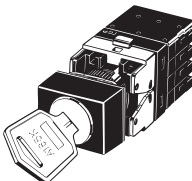
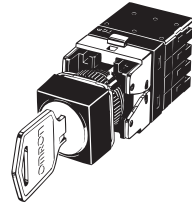
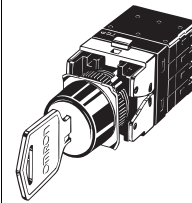
Separate Construction with Cylindrical 16-dia. Body

- Short mounting depth, less than 28.5 mm below panel
- Wide range of switching capacity from standard to microload
- Oil-resistant IP65 models



Refer to *Safety Precautions for All Pushbutton Switches/ Indicators* and *Safety Precautions* on page 11.

List of Models

	Model		
	Rectangular	Square	Round
Solder terminals	 A165K-J Series	 A165K-A Series	 A165K-T Series
Screw-less clamp connector	 A165K-J Series	 A165K-A Series	 A165K-T Series

Model Number Structure

Model Number Legend..... The model numbers used to order sets of Units are illustrated below. One set comprises the Selector, Switch, and 2 Keys.
For information on combinations, refer to *Ordering Information* on page 2.

A 1 6 5 K - **J** **3 M L** - **2**

(1) (2) (3)

(1) Shape of Selector

Symbol	Shape	Color
J	Rectangular	Black
A	Square	
T	Round	

(2) Number of Notches/Resetting Method

Symbol	No. of notches	Reset method	Key release position
2ML	2 notches	Manual	Left
2MR			Right
2M		Automatic	Left and right
2AL			Left
3MC	3 notches	Manual	Center
3MR			Right
3ML		Left	
3M		Left, right, and center	
3AC	3 notches	Automatic	Center

(3) Contact Configuration

Symbol	Type	Terminal
1	SPDT	Solder Terminal
2	DPDT	
2S	DPDT	Screw-less Clamp

Note: Only DPDT contacts are available with 3-notch models.

Ordering Information

Ordering as a Set..... The model numbers used to order sets of Units are given in the following tables. One set comprises the Selector, Switch and 2 Keys.

Solder Terminals

Rectangular Models



A165K-J

Oil-resistant IP65

Number of notches	Output	Reset method	Key release position	Model
2 notches	SPDT	Manual	Left	A165K-J2ML-1
			Right	A165K-J2MR-1
			Left and right	A165K-J2M-1
	DPDT	Automatic	Left	A165K-J2AL-1
			Right	A165K-J2ML-2
			Left and right	A165K-J2M-2
3 notches	DPDT	Manual	Center	A165K-J3MC-2
			Right	A165K-J3MR-2
			Left	A165K-J3ML-2
			Left, right, and center	A165K-J3M-2

Square Models



A165K-A

Oil-resistant IP65

Number of notches	Output	Reset method	Key release position	Model
2 notches	SPDT	Manual	Left	A165K-A2ML-1
			Right	A165K-A2MR-1
			Left and right	A165K-A2M-1
	DPDT	Automatic	Left	A165K-A2AL-1
			Right	A165K-A2ML-2
			Left and right	A165K-A2M-2
3 notches	DPDT	Manual	Center	A165K-A3MC-2
			Right	A165K-A3MR-2
			Left	A165K-A3ML-2
			Left, right, and center	A165K-A3M-2

Round Models



A165K-T

Oil-resistant IP65

Number of notches	Output	Reset method	Key release position	Model
2 notches	SPDT	Manual	Left	A165K-T2ML-1
			Right	A165K-T2MR-1
			Left and right	A165K-T2M-1
	DPDT	Automatic	Left	A165K-T2AL-1
			Right	A165K-T2ML-2
			Left and right	A165K-T2M-2
3 notches	DPDT	Manual	Center	A165K-T3MC-2
			Right	A165K-T3MR-2
			Left	A165K-T3ML-2
			Left, right, and center	A165K-T3M-2

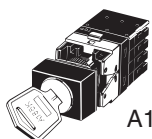
Ordering Information

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Selector, Switch and 2 Keys.

Screw-less clamp connector

Rectangular Models

Oil-resistant IP65

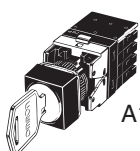


A165K-J

Number of notches	Output	Reset method	Key release position	Model
2 notches	DPDT	Manual	Left	A165K-J2ML-2S
			Right	A165K-J2MR-2S
			Left and right	A165K-J2M-2S
		Automatic	Left	A165K-J2AL-2S
3 notches	DPDT	Manual	Center	A165K-J3MC-2S
			Left	A165K-J3ML-2S
			Right	A165K-J3MR-2S
			Left, right, and center	A165K-J3M-2S

Square Models

Oil-resistant IP65

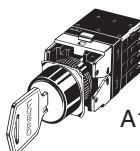


A165K-A

Number of notches	Output	Reset method	Key release position	Model
2 notches	DPDT	Manual	Left	A165K-A2ML-2S
			Right	A165K-A2MR-2S
			Left and right	A165K-A2M-2S
		Automatic	Left	A165K-A2AL-2S
3 notches	DPDT	Manual	Center	A165K-A3MC-2S
			Right	A165K-A3MR-2S
			Left	A165K-A3ML-2S
			Left, right, and center	A165K-A3M-2S

Round Models

Oil-resistant IP65


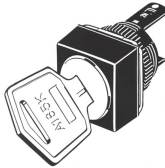

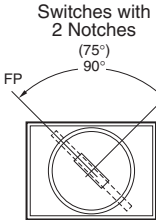
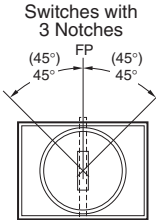


A165K-T

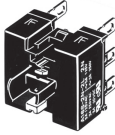
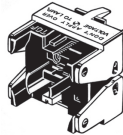

Number of notches	Output	Reset method	Key release position	Model
2 notches	DPDT	Manual	Left	A165K-T2ML-2S
			Right	A165K-T2MR-2S
			Left and right	A165K-T2M-2S
		Automatic	Left	A165K-T2AL-2S
3 notches	DPDT	Manual	Center	A165K-T3MC-2S
			Left	A165K-T3ML-2S
			Right	A165K-T3MR-2S
			Left, right, and center	A165K-T3M-2S

Ordering Information

Ordering Individually Selectors and Switches can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.

Operation Units (Listed on Page 5.)			
<p>Rectangular (A165K-J)</p> 	<p>Square (A165K-A)</p> 	<p>Round (A165K-T)</p> 	<p>(Standard condition when shipped)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Switches with 2 Notches (75° 90°)</p>  </div> <div style="text-align: center;"> <p>Switches with 3 Notches (45° FP (45°) 45°)</p>  </div> </div> <p>Note: The figures in parentheses are for self-resetting models. FP: Free position</p>
<p>Two keys are provided.</p>			






Switches (Listed on Page 5.)		
<p>Solder terminals</p> 	<p>PCB terminals</p> 	<p>Screw-less clamp connector</p> 

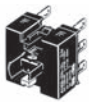

Ordering Information

Ordering Individually Selectors and Switches can be ordered separately. Combinations that are not available as sets can be created using individual Units. Also, store the parts as spares for maintenance and repairs.


Selectors

Appearance	Number of notches	Reset method	Key release position	Model
Rectangular (A165K-J) 	2 notches	Manual	⊘	A165K-J2ML
			⊙	A165K-J2MR
		Automatic	⊗	A165K-J2M
			⊖	A165K-J2AL
	3 notches	Manual	⊖	A165K-J3MC
			⊙	A165K-J3MR
			⊘	A165K-J3ML
			⊗	A165K-J3M
		Automatic	⊖	A165K-J3AC
			⊙	A165K-A2ML
Square (A165K-A) 	2 notches	Manual	⊘	A165K-A2ML
			⊙	A165K-A2MR
		Automatic	⊗	A165K-A2M
			⊖	A165K-A2AL
	3 notches	Manual	⊖	A165K-A3MC
			⊙	A165K-A3MR
			⊘	A165K-A3ML
			⊗	A165K-A3M
		Automatic	⊖	A165K-A3AC
			⊙	A165K-T2ML
Round (A165K-T) 	2 notches	Manual	⊘	A165K-T2ML
			⊙	A165K-T2MR
		Automatic	⊗	A165K-T2M
			⊖	A165K-T2AL
	3 notches	Manual	⊖	A165K-T3MC
			⊙	A165K-T3MR
			⊘	A165K-T3ML
			⊗	A165K-T3M
		Automatic	⊖	A165K-T3AC
			⊙	A165K-T3AC

Switches

Appearance	Classification			Model	
	Switches	2 notches	SPDT	Solder terminal	A16S-2N-1
			DPDT		A16S-2N-2
		3 notches	DPDT	A16S-3N-2	
		2 notches	SPDT	PCB terminal	A16S-2N-1P
			DPDT		A16S-2N-2P


Switch Units with Screw-less Clamp Connectors

Appearance	Classification			Model	Remarks	
	Common to standard load and microload.	DPDT	2 notches	Non-lighted	A16-2S	Common to ones for pushbutton switches.
			3 notches		A16S-3N-2LS	



Ordering Information

Accessories and Tools (Order Separately)


Accessories

Name	Appearance	Classification	Model	Remarks
Panel Plugs		Rectangular	A16ZJ-3003	Used for covering the panel cutouts for future panel expansion. Degree of protection: IP40 Color: Black
		Square	A16ZA-3003	
		Round	A16ZT-3003	

Tools

Name	Appearance	Model	Applicable types					Remarks
			Pushbutton Switch	Knob-type Selector Switch	Key-type Selector Switch	Emergency Stop Switch	Indicator	
Screw Fitting		A16Z-3004	Yes	Yes	Yes	Yes	Yes	Convenient for ganged installation.
Extractor		A16Z-5080	Yes	Yes	Yes	Yes	Yes	Convenient for extracting the Lamp from a Solder-terminal Socket Unit.

Key

Appearance	Model
	A165K-KEY

Note: Two Keys are provided.

Ordering as a Set: Refer to page 2 to 3.

- Specifications, and dimensions: Refer to page 7 to 10.
- Accessories, replacements, and tools: Refer to this page.

Specifications

Approved Standard Ratings

UL, cUL (File No. E41515)

5 A at 125 VAC, 3 A at 250 VAC (general use)
3 A at 30 VDC (resistive)

Note: Certification has been obtained for the Switch Unit.
For detailed information on individual products that have received certification, consult your supplier.

TÜV (EN60947-5-1) (Low Voltage Directive)

3 A at 250 VAC
3 A at 30 VDC

CCC (GB14048.5)

5 A at 125 VAC
3 A at 250 VAC
3 A at 30 VDC

Ratings

Contacts

Rated voltage	Resistive load
125 VAC	5 A
250 VAC	3 A
30 VDC	3 A

Minimum applicable load: 1 mA at 5 VDC

Rated values are obtained from tests conducted under the following conditions.

1. Load: Resistive load
2. Mounting conditions: No vibration and no shock
3. Temperature: 20±2°C
4. Operating frequency: 20 times/min

Contact Form

Name	Contact form
SPDT	

Characteristics

Socket Units

Item	Type	Key-type Selector Switch
Allowable operating frequency	Mechanical	20 operations/minute max.
	Electrical	10 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)
Contact resistance		100 mΩ max. (initial value)
Dielectric strength	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 minute
	Between terminals of different polarity	2,000 VAC, 50/60 Hz for 1 minute
	Between each terminal and ground	2,000 VAC, 50/60 Hz for 1 minute
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)
Shock resistance	Destruction	500 m/s ² max.
	Malfunction	150 m/s ² max. (malfunction within 1 ms)
Durability	Mechanical	250,000 operations min. (durability of key: 10,000 operations min.)
	Electrical	100,000 operations min.
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination		3 (IEC60947-5-1)
Weight		Approx. 26.5 g (in the case of a DPDT switch key)
Ambient operating temperature		-10°C to 55°C (with no icing or condensation)
Ambient operating humidity		35% to 85%RH
Ambient storage temperature		-25°C to 65°C (with no icing or condensation)

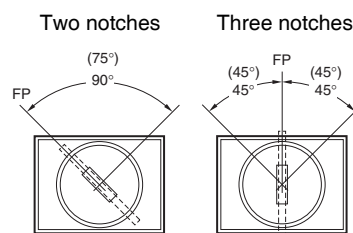
Screw-less Clamp

Item	Type	Screw-less Clamp			
Recommended wire size		0.5 mm ² twisted wire or 0.8 mm-dia. solid wire			
Usable wires and tensile strength	Twisted wire	0.3 mm ²	0.5 mm ²	0.75 mm ²	1.25 mm ²
	Solid wire	0.5 mm dia.	0.8 mm dia.	1.0 mm dia.	---
	Tensile strength	10 N	20 N	30 N	40 N
Length of exposed wire		10 ±1 mm			
Compliant standards		JIS C 2811 Terminal Blocks for Industrial Use			

Operating Characteristics

Characteristics	Type	Key-type Selector Switch	
		2 notches	3 notches
Operating torque (OF) max.		0.1 N·m	
Set position (SP)		90±5°	45° ⁺¹⁰ ₀

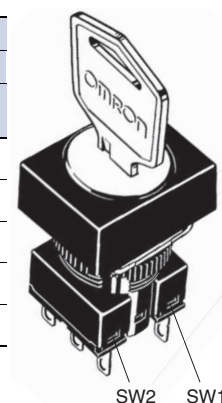
Operation Angle



Note: The angle used for automatic reset is shown in parentheses.
FP: Free position

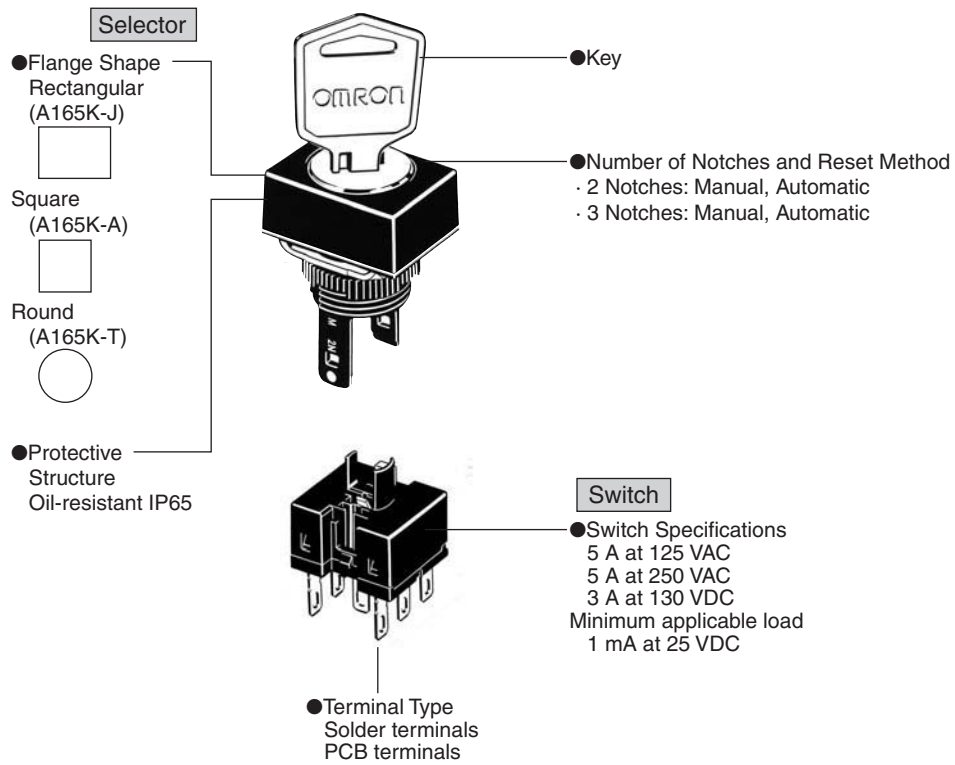
Contact Configuration

No. of notches	Contact configuration				
	SPDT		DPDT		
	Position	SW	Position	SW2	SW1
2 notches					
3 notches	---	---			
	---	---			
	---	---			



Nomenclature

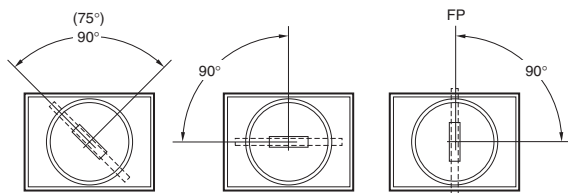
Model Structure



The flange can be rotated to easily change the operation angle of the knob.

For information on rotating the flange, refer to the A165S/W datasheet.

Example: Knob-type Selector Switch with Two Notches

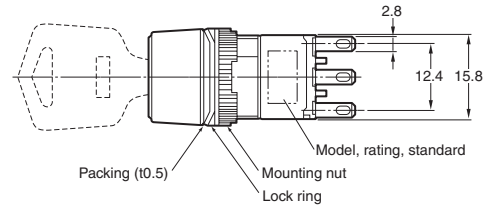
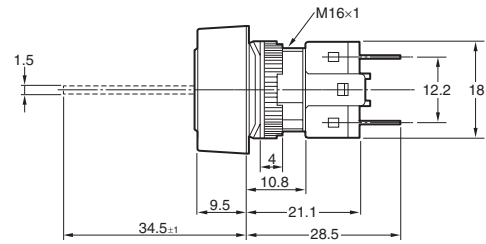
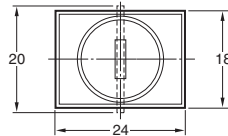


(Standard condition when shipped)

Note: The angle is 75° for self-resetting models.

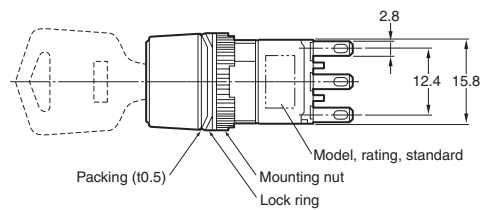
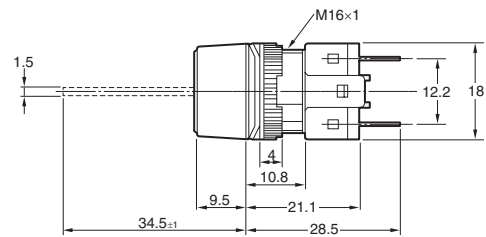
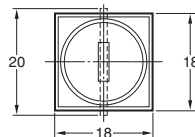
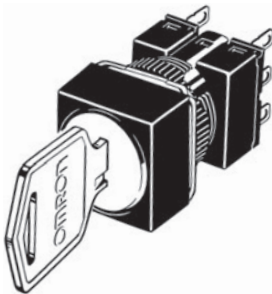
Dimensions The Dimension shows 2-switch outputs.

Rectangular A165K-J Solder terminals (tab terminals #110)



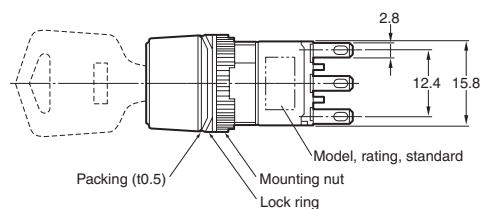
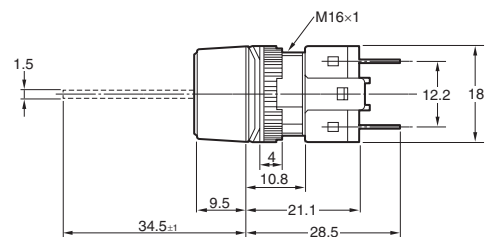
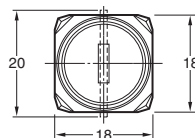
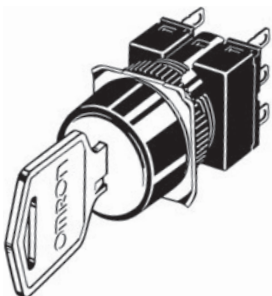
* Refer to the A165S/W for Panel cutouts.

Square A165K-A Solder terminals (tab terminals #110)



* Refer to the A165S/W for Panel cutouts.

Round A165K-T Solder terminals (tab terminals #110)



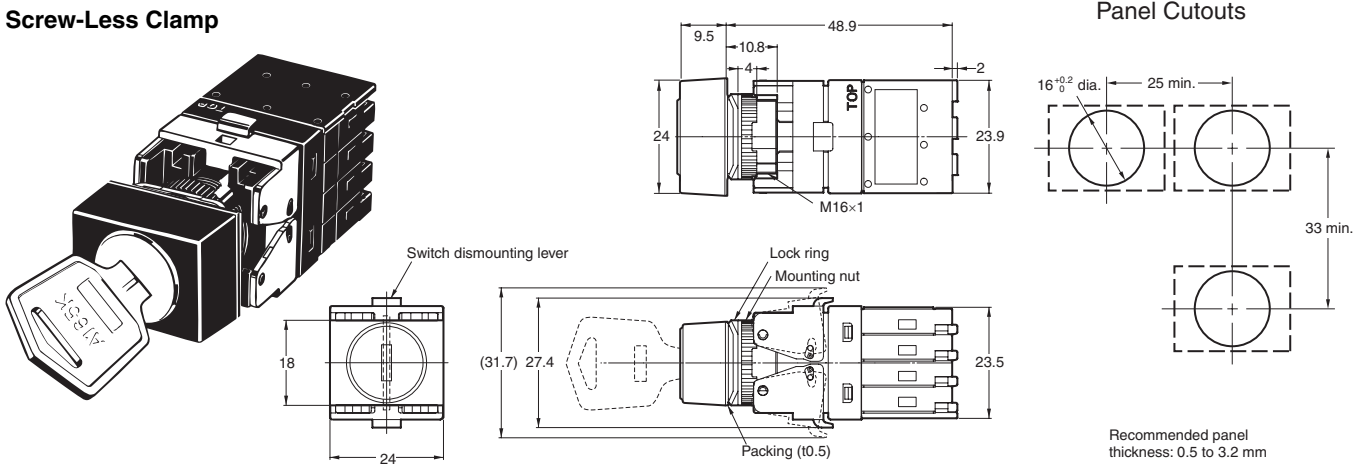
* Refer to the A165S/W for Panel cutouts.

Dimensions

• The Dimension shows 2-switch outputs. • The lamp terminal is also provided with non-lighted models. • A rectangular model is listed as an example. (Unit: mm)

Rectangular A165K□-2S

Screw-Less Clamp



Terminal Arrangement

For information on the terminal arrangement, refer to the A165S/W datasheet.

Panel Mounting and Socket Unit Mounting and Removal

Refer to the A16 Pushbutton Switch datasheet.

Flange Rotation

Refer to the A165S/W datasheet.

Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators*.

Precautions for Correct Use

Mounting

- Always make sure that the power is turned OFF before mounting, removing, or wiring the Switch, or performing maintenance.
- Do not tighten the mounting nut more than necessary using tools such as pointed-nose pliers. Doing so will damage the mounting nut.

The tightening torque is 0.29 to 0.49 N·m.

Wiring

- Solder terminals and quick-connect terminals (#110) are commonly used for terminals.
- Be sure to use electrical wires that are a size appropriate for the applied voltage and carry current (conductor size is 0.5 to 0.75 mm²). Perform soldering according to the conditions provided below. If the soldering is not properly performed, the lead wires will become detached, resulting in short-circuits.
 1. Hand soldering: 350°C, within 3 s
 2. Dip soldering: 350°C, within 3 s

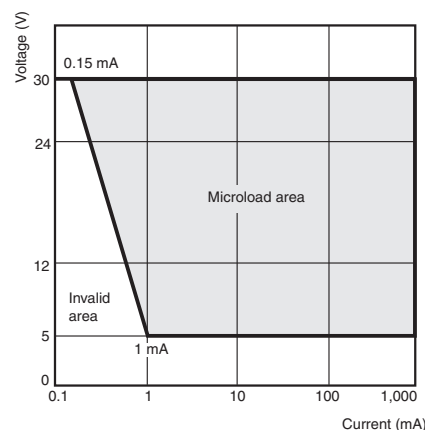
Wait for one minute after soldering before exerting any external force on the solder.
- Use non-corrosive resin fluid as the flux.
- Make sure that the electric cord is wired so that it does not touch the Unit. If the electric cord touches the Unit, then electric wires with a heat resistance of 100°C min. must be used.
- After wiring the Switch, maintain an appropriate clearance and creepage distance.

Operating Environment

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

Using the Microload

- Insert a contact protection circuit, if necessary, to prevent the reduction of life expectancy due to extreme wear on the contacts caused by loads where inrush current occurs when the contact is opened and closed.
- The A16 allows both a standard load (125 V at 5A, 250 V at 3 A) and a microload. If a standard load is applied, however, the microload area cannot be used. If the microload area is used with a standard load, the contact surface will become rough, and the opening and closing of the contact for a microload may become unreliable.
- 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 = 0.5×10^{-6} /operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.



Screw-less Clamp Wiring Procedure

Connecting Wires

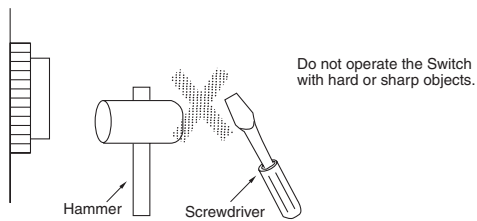
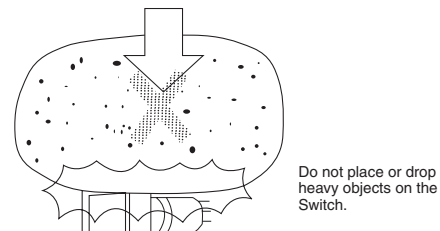
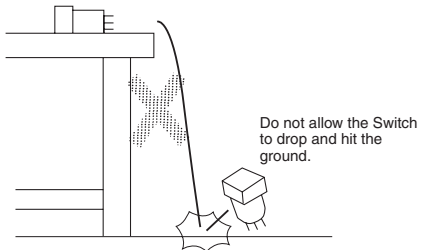
1. Strip the wires for 10 mm (allowable range: 10± 1 mm).
2. If braided wire is used, twist the wire to straighten it out.
3. Insert the wire into the insertion hole while pressing the release button at the side of the hole. (Using a precision screwdriver is recommended.)
4. Let go of the release button to lock the wire into place.
5. After locking, pull on the wire gently to confirm that it is securely locked.

Removing Wires

1. Remove wires by pulling them while pressing the release button.
- Note: When reusing wires that have already been locked one, cut off the end of the wire and strip the wire again before using.

Others

- The oil-resistant IP65 uses NBR rubber and is resistant to general cutting oil and cooling oil. Some particular oils cannot be used with the oil-resistant IP65, however, so contact your OMRON representative for details.
- If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after the coating.
- Do not subject the Switch to extreme shock or vibration. Doing so will cause malfunctions and damage to the Switch. Do not let sharp objects come into contact with the Switches that are made of resin. Doing so will damage the Switches, causing scratches on the outside of the operating parts, and malfunction. When handling the Switches, do not throw or drop them.



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