Knob-type Selector Switch (Detachable) (Cylindrical 16-dia.)

A165S/W

Separate Construction with Cylindrical 16-dia. Body

- Same separate construction as the A16-series Pushbuttons with Miniature Design of 28.5 mm
- The same contacts can be used for both standard loads and microloads.
- Oil-resistant IP65 models
- Conforms to EN60947-5-1.



Refer to Safety Precautions for All Pushbutton Switches and Safety Precautions on page 15.

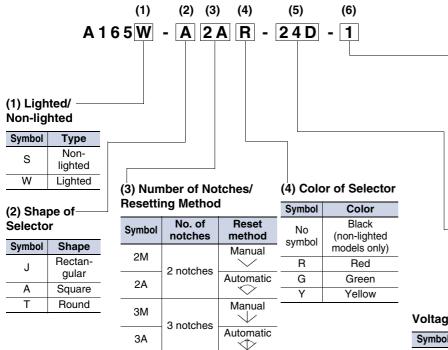
List of Models

	Model						
	Rectangular	Square	Round				
Solder terminals	A165-J Series	A165-A Series	A165-T Series				
Voltage- reduction lighting	A165-J Series	A165 - A Series	A165-T Series				
Screw- less clamp connector	A165-J Series	A165-A Series	A165-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, Lamp (lighted models only), and Switch.

For information on combinations, refer to Ordering Information on page 3.



(6) Contact Configuration

Symbol	Туре	Terminal	
1	SPDT	Solder terminal	
2	DPDT		
1P	SPDT	PCB terminal	
2P	DPDT	PCB terminal	
2S	DPDT	Screw-less Clamp	

Note: 1. Only DPDT contacts are available with 3-notch models and Screw-less Clamp

models. 2. PCB terminals are available only with

2-notch models.

(5) Light Source

Symbol	Туре
No symbol	Non-lighted
24D	24-V LED

Voltage Reduction Unit (24-V Built-in LED)

Symbol	Туре	Operating voltage	Rated voltage
T1	LED	100/110 VAC/VDC	110 VAC/VDC
T2		200/220 VAC/VDC	220 VAC/VDC

Note: 1. Solder terminals are only available with 100-V models. 2. The Voltage Reduction Unit is not available for models with

PCB terminals. 3. "T2" is available only for the Screw-less Clamp type.

Model A165W-A2M -24D-1

A165S-A2M-1

A165S-A2A-1

A165S-A2M-2

A165S-A2A-2

A165S-A3M-2

A165W-A2A -24D-1

A165W-A2M -24D-2

A165W-A2A -24D-2

A165W-A3M -24D-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, Lamp (lighted models only), and Switch.

Solder Terminals

Rectangular	



Oil-resistant IP65				
No. of notches	Output	Reset method	Lighting method	Model
		Manual 🔨	LED	A165W-J2M -24D-1
2 notches	SPDT		Non-lighted	A165S-J2M-1
	3501	Automatic 🛇 -	LED	A165W-J2A -24D-1
			Non-lighted	A165S-J2A-1
2 notches	DPDT	Manual 🗸	LED	A165W-J2M -24D-2
			Non-lighted	A165S-J2M-2
			LED	A165W-J2A -24D-2
		Automatic 🤝	Non-lighted	A165S-J2A-2
3 notches	DPDT	Manual	LED	A165W-J3M□-24D-2
3 notches	DFD1	Manual 🗸	Non-lighted	A165S-J3M-2

Note: Enter the desired color symbol for the Selector in 🗆: R (red); Y (yellow); G (green). The Selector for non-lighted models is black.

A165□-J

Square A165 - A **Oil-resistant IP65** No. of notches Output **Reset method** Lighting method LED Manual Non-lighted SPDT LED Automatic \checkmark Non-lighted 2 notches LED Manual Non-lighted DPDT LED Automatic \sim Non-lighted LED 3 notches DPDT Manual \checkmark Non-lighted

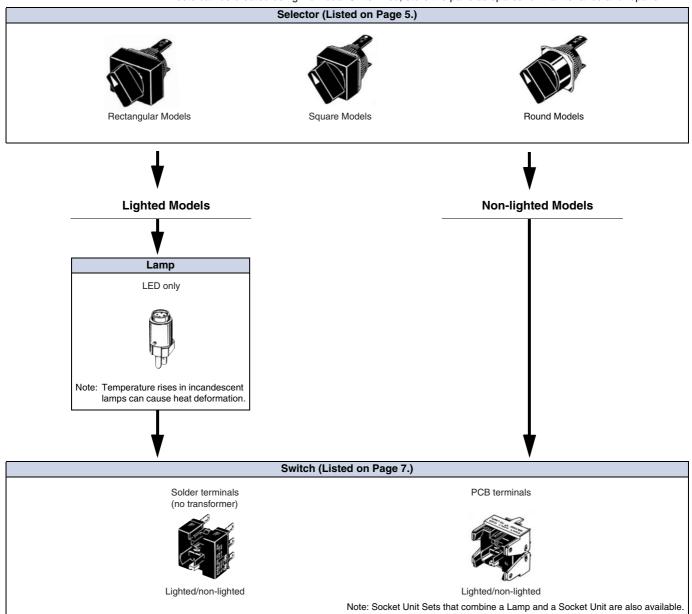
Note: Enter the desired color symbol for the Selector in 🗆: R (red); Y (yellow); G (green). The Selector for non-lighted models is black.



No. of notches	Output	Reset method	Lighting method	Model
		Manual 🔨	LED	A165W-T2M□-24D-1
	SPDT		Non-lighted	A165S-T2M-1
	3501	Automatic 🛇	LED	A165W-T2A -24D-1
2 notches			Non-lighted	A165S-T2A-1
2 holches	DPDT	Manual 🗸	LED	A165W-T2M -24D-2
			Non-lighted	A165S-T2M-2
		Automatic 🛇	LED	A165W-T2A -24D-2
			Non-lighted	A165S-T2A-2
3 notches	DPDT	Manual	LED	A165W-T3M -24D-2
	DPDT	Manual V	Non-lighted	A165S-T3M-2

Note: Enter the desired color symbol for the Selector in 🗆: R (red); Y (yellow); G (green). The Selector for non-lighted models is black.

Ordering Information



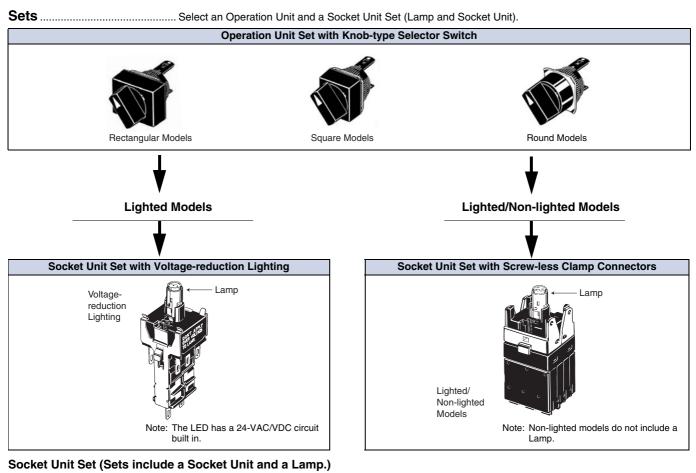
Ordering Information

Ordering Individually Selectors, Lamps, and Switches (Sockets) 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 (Oil-resistant IP65 Models Only)

Appearance	Number of notches	Reset method	Lighting method	Model	Selector color symbol
Rectangular		Manual	LED	A165W-J2M	
(A165□-J)	0	Mariuai	Non-lighted	A165S-J2M	F atantha da Sarda da Isra
	2 notches	Automatic 🕥	LED	A165W-J2A	Enter the desired color symbol for the Selec-
		Automatic 🕥	Non-lighted	A165S-J2A	tor in \Box .
		Manual	LED	A165W-J3M	R (red),
	3 notches	Mariuai	Non-lighted	A165S-J3M	Y (yellow), G (green)
	3 110101165	Fully	LED	A165W-J3A	a (green)
		automatic (1)	Non-lighted	A165S-J3A	
Square	2 notches Au 3 notches Fu	Manual	LED	A165W-A2M	
(A165□-A)		Ividitudi	Non-lighted	A165S-A2M	Enterthe desired color
		Automatic 🕥	LED	A165W-A2A	Enter the desired color symbol for the Selec-
A			Non-lighted	A165S-A2A	tor in \Box .
		Manual	LED	A165W-A3M	R (red),
		Ivialiual	Non-lighted	A165S-A3M	Y (yellow), G (green)
		Fully 💮	LED	A165W-A3A	G (green)
		automatic	Non-lighted	A165S-A3A	
Round		Manual	LED	A165W-T2M	
(A165□-T)		Mariuai	Non-lighted	A165S-T2M	Enter the desired color
A	2 notches	Automatic 🕥	LED	A165W-T2A	symbol for the Selec-
		Automatic 🕥	Non-lighted	A165S-T2A	tor in \Box .
		Manual	LED	A165W-T3M	R (red),
		IVIAITUAI	Non-lighted	A165S-T3M	Y (yellow), G (green)
	3 notches	Fully	LED	A165W-T3A	G (green)
		automatic (1)	Non-lighted	A165S-T3A	

Note: The selector for non-lighted models is black.

Ordering Information



Appearance	Number of notches	Classification			Model
9	2 notches	SPDT	24 V	Solder terminals	A16W-2N□-24D-1
		DPDT			A16W-2N□-24D-2
BU BUUU	3 notches	DPDT	24 V		A16W-3N□-24D-2

Socket Unit Set with Voltage Reduction Unit (Solder Terminal)

Appearance	Classification			Operating voltage	Model
	Standard loads and	2 notches	SPDT	100/110 \/ACM/DC	A16L-□-T1-1
		2 notches	DPDT	— 100/110 VAC/VDC	A16L-□-T1-2
		3 notches	DFDI		A16W-3N□-T1-2

Note: The LED has a 24-VAC/VDC circuit built in.

Insert one of the following letters into the box (\Box).

Symbol	Light color
R	Red
Y	Yellow
G	Green

Ordering Information

Screw-less Clamp Connector Socket Unit Set

Appearance		Classification Model					Remarks
				Non-lighted		A16-2S	Used for Pushbutton
_		2 notches		No voltage-reductio	n lighting	A16L-∆-□-2S	Switches and
		d	Lighted	i onago i o aaonon	100/110 VAC/VDC		Knob-type Selector
	Standard				200/220 VAC/VDC	A16L-∆-T2-2S	Switches.
	loads and - microloads		Non-lighted		A16S-3N-2LS		
	moroloado	3 notches		No voltage-reductio	n lighting	A16W-3N∆-⊡-2S	
		DPDT Lighted	Voltage-reduction	100/110 VAC/VDC	A16W-3N-∆-T1-2S		
			lighting	200/220 VAC/VDC	A16W-3N-∆-T2-2S	1	

Δ

Note: The 100-V models and 200-V models have a 24-VAC/VDC circuit built in.

Insert symbols in Δ and \Box .

		l			
Symbol	Light color		Symbol	Туре	Operating voltage
R	Red		5D		5 VDC
Y	Yellow		12D	LED	12 VAC/VDC
G	Green		24D		24 VAC/VDC

Ordering Individually Switches

Appearance			Classification			Model
		0 matakaa	SPDT		A16S-2N-1L	
~	Lighted		2 notches	DPDT		A16S-2N-2L
Non-lighted		3 notches	DPDT	Solder terminal	A16S-3N-2L	
		0 matakaa	SPDT	Solder terminal	A16S-2N-1	
	Non-lighted	Socket (without		DPDT		A16S-2N-2
	-	voltage-reduction	3 notches	DPDT		A16S-3N-2
600	Lightod			SPDT		A16S-2N-1LP
Lighted Non-lighted	Lignied			DPDT	PCB terminal	A16S-2N-2LP
	Non lighted		2 notches	SPDT	- POD terminal	A16S-2N-1P
	Non-lighted			DPDT	_	A16S-2N-2P

Lamps

Operating voltage	Super-bright			
Light color	5 VDC	12 VAC/VDC	24 VAC/VDC	
Red	A16-5DSR	A16-12DSR	A16-24DSR	
Yellow	A16-5DSY	A16-12DSY	A16-24DSY	
Green	A16-5DSG	A16-12DSG	A16-24DSG	

Accessories and Tools (Order Separately)

esso	

Name	Appearance	Classification	Model	Remarks
		Rectangular	A16ZJ-3003	Used for covering the panel cut-
Panel Plugs		Square		outs for future panel expansion.
	KKP	Round	A16ZT-3003	Degree of protection: IP40

Tools

				A	pplicable type	s		
Name Appearance	Model	Pushbutton Switch	Knob-type Selector Switch	Key-type Selector Switch	Emergency Stop Switch	Indicator	Remarks	
Screw Fitting		A16Z-3004	Yes	Yes	Yes	Yes	Yes	Convenient for ganged installation. Tighten to a torque of 0.39 N·m min.
Extractor		A16Z-5080	Yes	Yes	Yes	Yes	Yes	Convenient for extracting the Switches and Lamps.

Ordering as a Set: Refer to page 3.

- Specifications and dimensions: Refer to pages 8 to 10.
- \blacksquare 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 Socket Unit. For detailed information on individual products that have received certification, consult your supplier.

Ratings **Switch Ratings**

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

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

Contact Form

Name	Contact form
SPDT	

Super-bright LED

Rated voltage	Rated current	Operating voltage	Internal limiting resistor
5 VDC		5 VDC±5%	Red, yellow: 300 Ω Green: 160 Ω
12 VAC/VDC	8 mA	12 VAC/VDC±5%	Red, yellow: 1 kΩ Green: 910 Ω
24 VAC/VDC		24 VAC/VDC±5%	2.4 kΩ

Screw-less Clamp

Item	Туре	Screw-less Clamp				
Recommended wire size		0.5 mm ² twisted wire or 0.8 mm-dia. solid wire				
Usable	Twisted wire	0.3 mm ²	0.5 mm ²	0.75 mm ²	1.25 mm ²	
wires and tensile	Solid wire	0.5 mm dia.	0.8 mm dia.	1.0 mm dia.		
strength	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

Туре	Knob-type Selector Switch		
Characteristics	2 notches	3 notches	
Operating force (OF) max.	0.1	N∙m	
Set position (SP)	90±5°	45° ⁺¹⁰ 0	

Characteristics Socket Unit

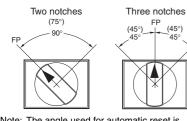
Item	Туре	Knob-type Selector Switch	
Allowable	Mechanical	20 operations/minute max.	
operating frequency	Electrical	10 operations/minute max.	
Insulation r	resistance	100 MΩ min. (at 500 VDC)	
	Between termi- nals of same polarity	1,000 VAC, 50/60 Hz for 1 min	
Dielectric strength	Between termi- nals of different polarity	2,000 VAC, 50/60 Hz for 1 min	
strength	Between each terminal and ground	2,000 VAC, 50/60 Hz for 1 min	
	Between lamp terminals	1,000 VAC, 50/60 Hz for 1 min*	
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)	
Shock	Destruction	500 m/s ²	
resistance	Malfunction	150 m/s² max. (malfunction within 1 ms)	
Durability	Mechanical	250,000 operations min.	
Durability	Electrical	100,000 operations min.	
Electric she class	ock protection	Class II	
PTI (tracking	g characteristic)	175	
Degree of o	ontamination	3 (IEC60947-5-1)	
Weight		Approx. 13 g (in the case of a lighted DPDT switch)	
Ambient operating temperature		-10°C to 55°C (with no icing or condensation)	
Ambient op humidity	perating	35% to 85%RH	
Ambient st temperatur		-25°C to 65°C (with no icing or condensation)	

* With LED not mounted.

(Perform testing with the LED not mounted.)

Specifications

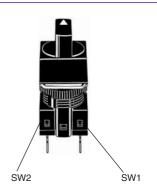
Operation Angle



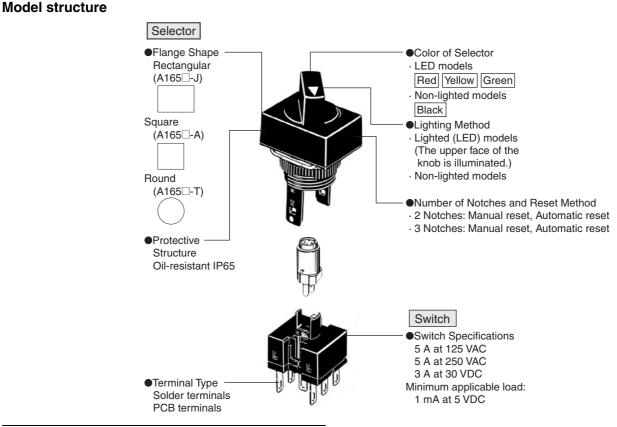
Note: The angle used for automatic reset is shown in parentheses. FP: Free Position

	Contact from					
No. of notches	SPDT		DPDT			
	Posi- tion	SW	Posi- tion	SW2	SW1	
2 notches	\bigcirc	~	\bigotimes	~	••	
	\bigcirc	\$●	\bigcirc	∕•	\$∙	
3 notches			\bigcirc	∕•	Ŷ°	
			1	~	~	
			\bigcirc	~	• ⁄>	

Contact Form

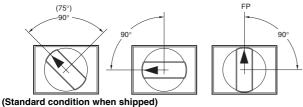


Nomenclature



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

For information on rotating the flange, refer to page 14. Example: Knob-type Selector Switch with Two Notches

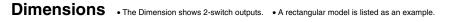


Note: The angle is 75° for self-resetting models.

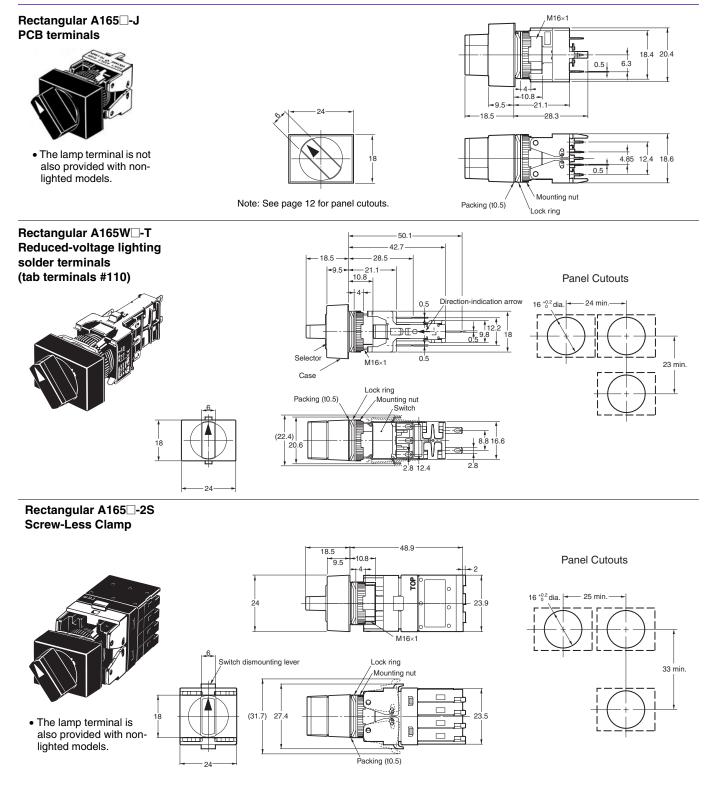
(Unit: mm)

Dimensions • The Dimension shows 2-switch outputs. • The lamp terminal is not provided with non-lighted models.

M16×1 Rectangular A165 -J Solder terminals (tab terminals #110) m 22 4 Lamp terminal 10.8 9.5 -21.1 18.5 28.5-24 -6-4.85 12.4 15.8 Model, standard, lot No., serial number Packing (t0.5) Mounting nut Note: See page 12 for panel cutouts. Lock ring /M16×1 Square A165 -A Solder terminals (tab terminals #110) П 2 4 Lamp terminal 10.8 _9.5 -21.1 18.5 18 28.5 6 ð 4.85 12.4 15.8 ⋽ Model, standard, lot No., serial number Mounting nut Packing (t0.5) Note: See page 12 for panel cutouts. Lock ring Round A165 -T /M16×1 Solder terminals (tab terminals #110) -П 12.2 18 4 Lamp terminal 10.8 _9.5 -21.1 18.5 -28.5 15.8 2.4 Model, standard, lot No., serial number Packing (t0.5) Mounting nut Note: See page 12 for panel cutouts. Lock ring



(Unit: mm)

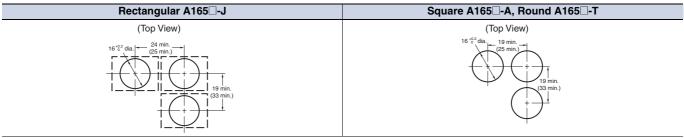


Dimensions

(Unit: mm)

Panel Cutouts

Models with Solder Terminals and Models with Screw-less Clamp Connectors

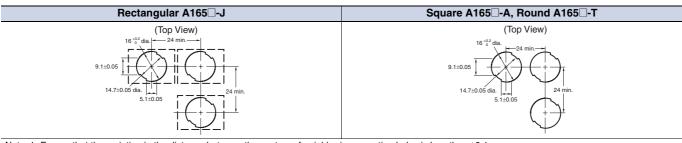


Note: 1. Make sure the thickness of the mounting panel is 0.5 to 3.2 mm.

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

3. Figures in parentheses are for screw-less clamp connectors.

Models with PCB Terminals

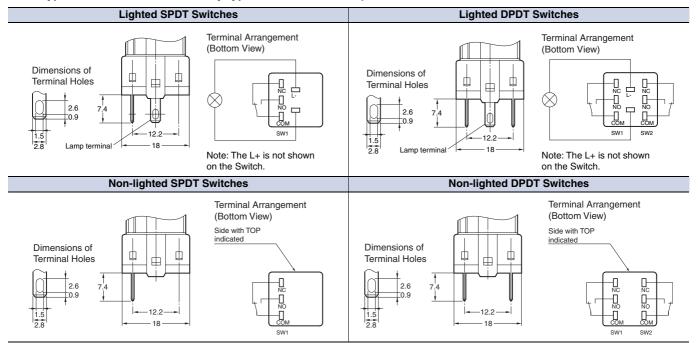


Note: 1. Ensure that the variation in the distance between the centers of neighboring mounting holes is less than ±0.1 mm. 2. Make sure the thickness of the mounting panel is 0.5 to 3.2 mm. If, however, a Switch Guard or Dust Cover is used, the thickness of the mounting panel must be 0.5 to 2 mm.

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

Terminal Arrangement

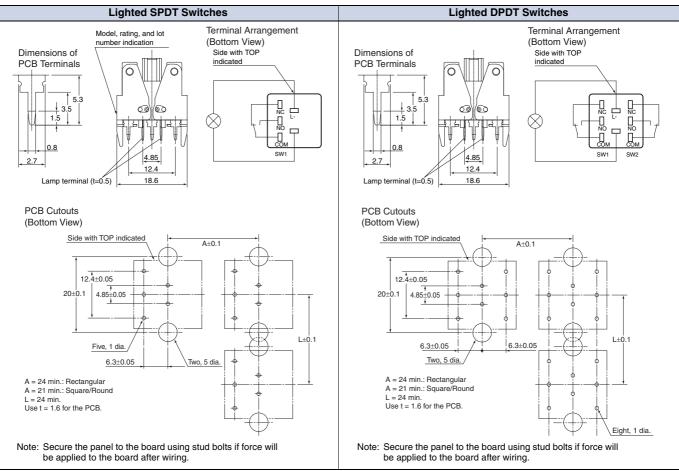
Models with Solder Terminals without Reduced-voltage Lighting (Lamp terminals are not provided with the Non-lighted Knob-type Selector Switches and Key-type Selector Switches.)



Dimensions

(Unit: mm)

Models with PCB Terminals

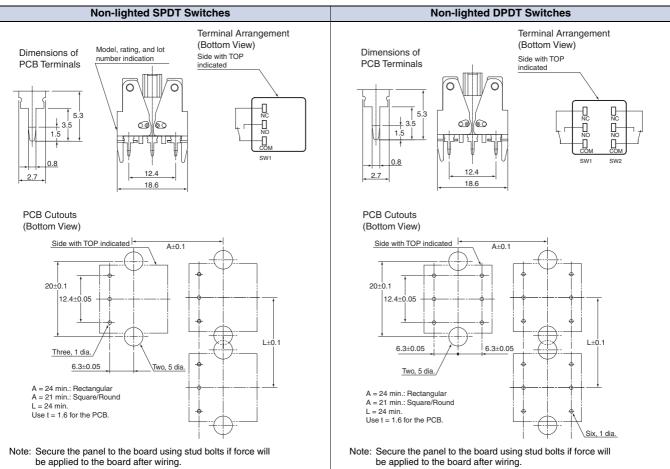


Note: For details of the terminal arrangement for Screw-Less Clamps, refer to the corresponding section for the A16.

(Unit: mm)

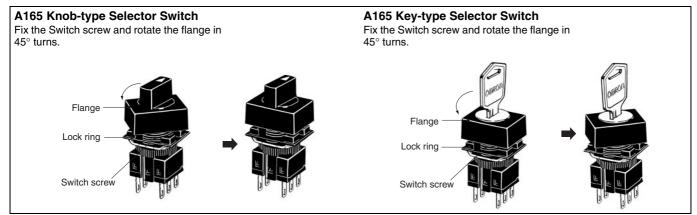
Dimensions

Non-lighted Models with PCB Terminals (Lamp terminals are not provided with the Non-lighted Knob-type Selector Switches and Key-type Selector Switches.)



For details on mounting the Switch to a panel, and mounting and dismounting the Switch, refer to installation details for the A16 Pushbutton Switch.

Flange Rotation (All Selector Switches)



Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches.

🕂 WARNING

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



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



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
- 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.

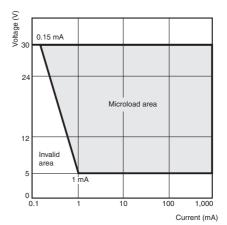
Operating Environment

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



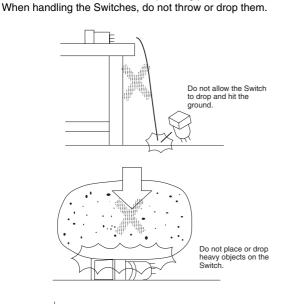
LED

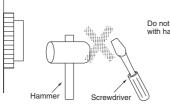
 The LED current-limiting resistor is built-in, so external resistance is not required.

Rated voltage	Internal limiting resistor
5 VDC	Red, yellow: 300 Ω Green: 160 Ω
12 VAC/VDC	Red, yellow: 1 k Ω Green: 910 Ω
24 VAC/VDC	2.4 kΩ

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.





Do not operate the Switch with hard or sharp objects.

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- · Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

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In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation Industrial Automation Company

http://www.ia.omron.com/



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;

- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);

- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;

- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком):

- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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