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/ Indicators and Safety Precautions on page 15.

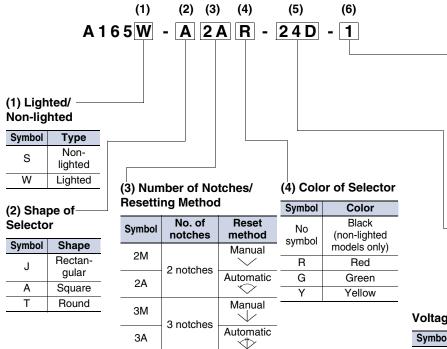
## List of Models

	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	FOD 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.

## A165S

Model

#### **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			
		Manual 🗸	LED			
SDDT	SPDT		Non-lighted			
	5101					

A165□-J

	Manual		LED	A165W-J2M□-24D-1
			Non-lighted	A165S-J2M-1
	SPDT	Automatic 🤝	LED	A165W-J2A -24D-1
2 notches			Non-lighted	A165S-J2A-1
2 holdnes	DPDT Automati	Manual V	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 V	LED	A165W-J3M -24D-2
3 holones	DFDT	Manual V	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.

Square A165 - A Oil-resistant IP65 No. of notches Output **Reset method** Lighting method Model A165W-A2M -24D-1 LED Manual Non-lighted A165S-A2M-1 SPDT LED A165W-A2A -24D-1 Automatic  $\bigtriangledown$ Non-lighted A165S-A2A-1 2 notches A165W-A2M -24D-2 LED Manual Non-lighted A165S-A2M-2 DPDT LED A165W-A2A -24D-2 Automatic  $\bigtriangledown$ Non-lighted A165S-A2A-2 LED A165W-A3M -24D-2 3 notches DPDT Manual  $\checkmark$ Non-lighted A165S-A3M-2

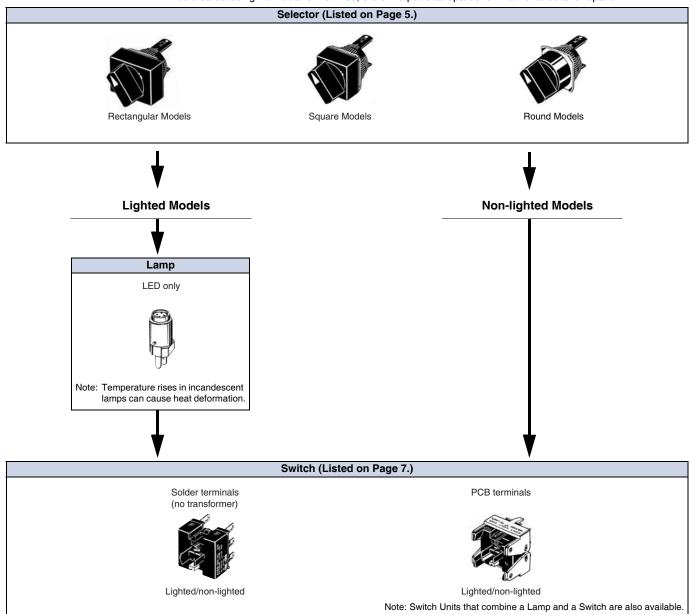
Note: Enter the desired color symbol for the Selector in 🗆: R (red); Y (yellow); G (green). The Selector for non-lighted models is black.



No. of notches	Output	Reset method	Lighting method	Model
			LED	A165W-T2M -24D-1
	SPDT	Manual 🔨	Non-lighted	A165S-T2M-1
	SPDI	Automatic 🤝	LED	A165W-T2A -24D-1
2 notches			Non-lighted	A165S-T2A-1
2 Holdnes	DPDT -	Manual 🗸	LED	A165W-T2M□-24D-2
			Non-lighted	A165S-T2M-2
			LED	A165W-T2A -24D-2
			Non-lighted	A165S-T2A-2
3 notches	DPDT	Manual	LED	A165W-T3M□-24D-2
3 notches		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**



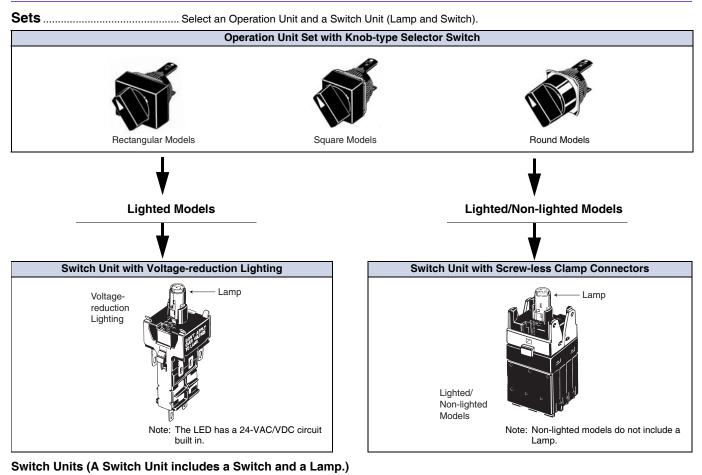
## **Ordering Information**

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)	2 notches	Manual	Non-lighted	A165S-J2M	Enter the desired color
	2 notches	Automatic 🕥	LED	A165W-J2A	symbol for the Selec-
		Automatic 🕥	Non-lighted	A165S-J2A	tor in $\Box$ .
		Manual	LED	A165W-J3M	R (red),
	3 notches	Manual	Non-lighted	A165S-J3M	Y (yellow), G (green)
	5 Holdnes	Fully	LED	A165W-J3A	G (green)
		automatic	Non-lighted	A165S-J3A	
Square		Manual	LED	A165W-A2M	
(A165□-A)	2 notches Auto 3 notches	Manual	Non-lighted	A165S-A2M	Entende de das las las
		Automatic 🔿	LED	A165W-A2A	Enter the desired color symbol for the Selec-
A		Automatic (\)	Non-lighted	A165S-A2A	tor in $\Box$ .
		Manual	LED	A165W-A3M	R (red),
			Non-lighted	A165S-A3M	Y (yellow),
		Fully 💮	LED	A165W-A3A	G (green)
		automatic	Non-lighted	A165S-A3A	
Round		Manual	LED	A165W-T2M	
(A165□-T)	2 notches	Manual	Non-lighted	A165S-T2M	Enter the desired color
	2 notches	Automatic 🕥	LED	A165W-T2A	symbol for the Selec-
A		Automatic 🕥	Non-lighted	A165S-T2A	tor in $\Box$ .
		Manual	LED	A165W-T3M	R (red),
1 1	O se a tata	Manual	Non-lighted	A165S-T3M	Y (yellow),
	3 notches	Fully 🔿	LED	A165W-T3A	G (green)
		automatic	Non-lighted	A165S-T3A	

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

### **Ordering Information**



Appearance	Number of notches	Classification			Model
<u> </u>	2 notches	SPDT			A16W-2N□-24D-1
	2 holdnes	DPDT	24 V	Solder terminals	A16W-2N□-24D-2
	3 notches	DPDT			A16W-3N□-24D-2

#### Switch Units with Voltage Reduction Units (Solder Terminals)

Appearance	Classification			Operating voltage	Model
	Standard loads and	2 notches	SPDT	100/110 VAC/VDC	A16L-□-T1-1
	microloads	2 notches	DPDT		A16L-□-T1-2
		3 notches			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**

#### Switch Units with Screw-less Clamp Connectors

Appearance			Clas	sification		Model	Remarks
			Non-lighted			A16-2S	Used for Pushbutton
_		2 notches		No voltage-reduction lighting		A16L-∆-□-2S	Switches and
1 <b>9</b> _8	Standard loads and microloads		Lighted	Voltage-reduction lighting	100/110 VAC/VDC	A16L-∆-T1-2S Kn	Knob-type Selector Switches.
Standard		200/220 VAC/VDC			A16L-∆-T2-2S		
	loads and microloads			Non-lighted		A16S-3N-2LS	
· ·	mororodado	3 notches		No voltage-reduction 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	

Δ

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

Insert symbols in  $\Delta$  and  $\Box$ .

		Į			
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
			2 notches	SPDT		A16S-2N-1L
~	Lighted		2 holdnes	DPDT		A16S-2N-2L
-To-A			3 notches	DPDT	Colder terminal	A16S-3N-2L
Non-lighte		Ion-lighted Switches (without	2 notches	SPDT	<ul> <li>Solder terminal</li> </ul>	A16S-2N-1
	Non-lighted			DPDT		A16S-2N-2
		voltage-reduction lighting)	3 notches	DPDT		A16S-3N-2
600	l indata al	iigitung)		SPDT		A16S-2N-1LP
	Lighted			DPDT		A16S-2N-2LP
	Nan Bahtad		2 notches	SPDT	PCB terminal	A16S-2N-1P
	Non-lighted		t	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	THE A	Square	A16ZA-3003	outs for future panel expansion.
		Round	A16ZT-3003	Degree of protection: IP40

#### Tools

			Applicable types					
Name	Appearance	Model	Pushbutton Switch	Knob-type Selector Switch	Key-type Selector Switch	Emergency Stop Switch	Indicator	Remarks
Screw Fitting	6	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.
- 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. 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.
Load: Resistive load
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)

A165S/W

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 $\Omega$ Green: 160 $\Omega$
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					
Recomm wire size		0.5 mm <sup>2</sup> twisted wire or 0.8 mm-dia. solid wire					
Usable	Twisted wire	0.3 mm <sup>2</sup>	0.5 mm <sup>2</sup>	0.75 mm <sup>2</sup>	1.25 mm <sup>2</sup>		
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 wire	exposed	10 ±1 mm					
Complia standard					ustrial Use		

#### **Operating Characteristics**

Туре	Knob-type Selector Switch		
Characteristics	2 notches	3 notches	
Operating torque (OF) max.	0.1 N·m		
Set position (SP)	90±5°	45° <sup>+10</sup>	

## Characteristics

#### Socket Unit

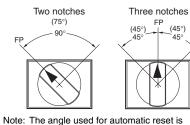
Item Type		Knob-type Selector Switch
Allowable	Mechanical	20 operations/minute max.
operating frequency	Electrical	10 operations/minute max.
Insulation resistance		100 MΩ min. (at 500V DC)
Contact resistance		100 m $\Omega$ max. (initial value)
Dielectric strength	Between termi- nals of same polarity	1,000 VAC, 50/60 Hz for 1 min
	Between ter- minals of dif- ferent polarity	2,000 VAC, 50/60 Hz for 1 min
	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 resistance	Destruction	500 m/s <sup>2</sup> max.
	Malfunction	150 m/s <sup>2</sup> max. (malfunction within 1 ms)
Durability	Mechanical	250,000 operations min.
Durability	Electrical	100,000 operations min.
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination		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 operating humidity		35% to 85%RH
Ambient storage temperature		-25°C to 65°C (with no icing or condensation)
* With LED not	t mounted	<u> </u>

With LED not mounted.

(Perform testing with the LED not mounted.)

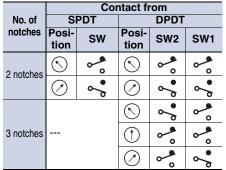
## Specifications

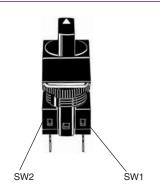
#### **Operation Angle**



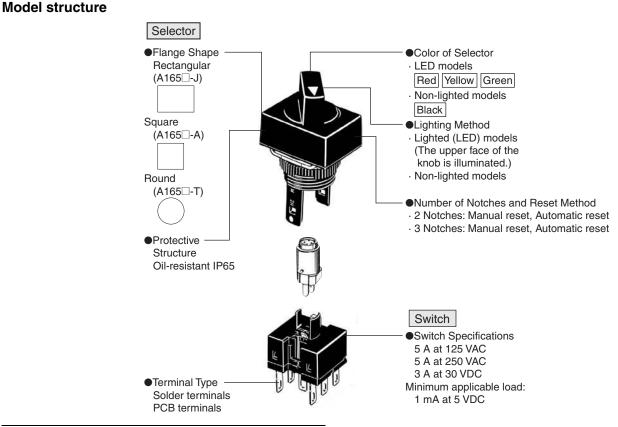
Note: The angle used for automatic reset is shown in parentheses. FP: Free Position

Conta	ct Form	
		Co



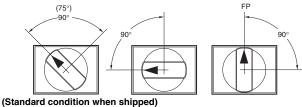


#### Nomenclature



## 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.

Model, ratings, standard

Mounting nut

Lock ring

(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 -6-15.8 12.4 4.85 Model, ratings, standard 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, ratings, standard Packing (t0.5) Mounting nut 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

Packing (t0.5)

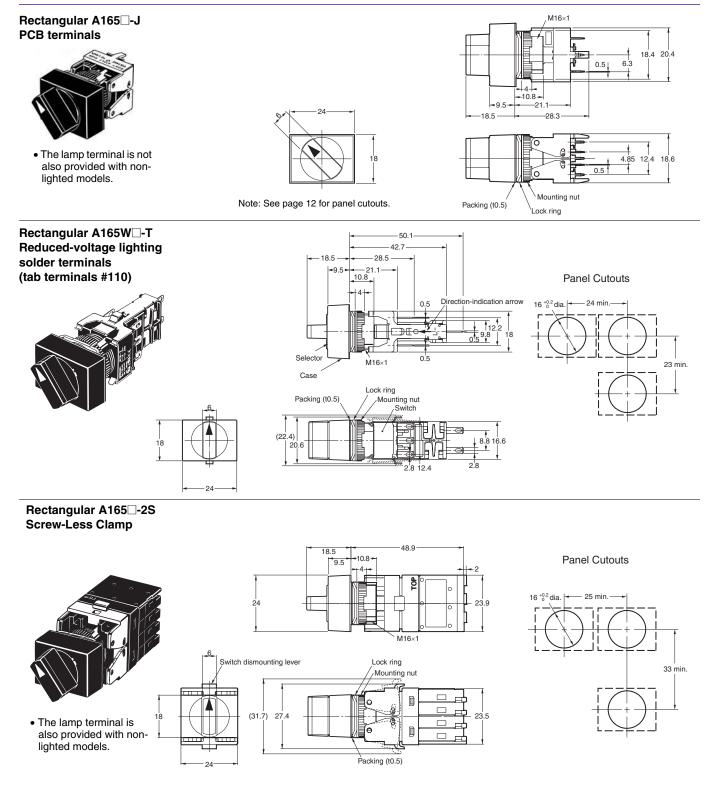


Note: See page 12 for panel cutouts.





(Unit: mm)

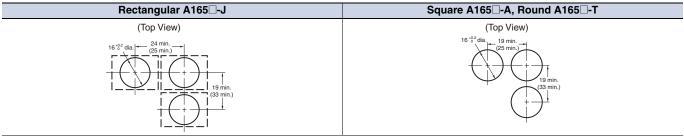


#### Dimensions

(Unit: mm)

#### **Panel Cutouts**

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

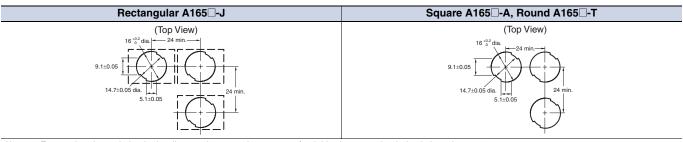


Note: 1. Make sure the thickness of the mounting panel is 0.5 to 3.2 mm.

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

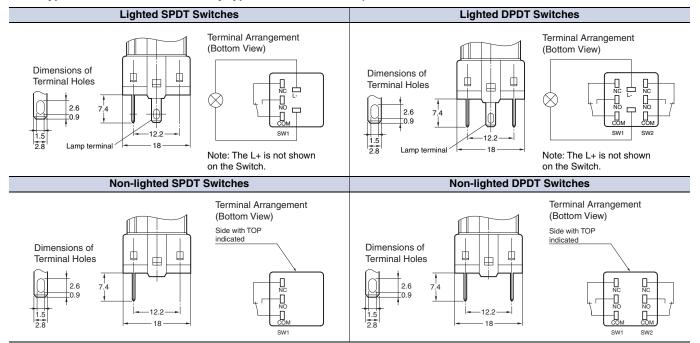


Note: 1. Ensure that the variation in the distance between the centers of neighboring mounting holes is less than ±0.1 mm. 2. Make sure the thickness of the mounting panel is 0.5 to 3.2 mm. If, however, a Switch Guard or Dust Cover is used, the thickness of the mounting panel must be 0.5 to 2 mm.

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

#### **Terminal Arrangement**

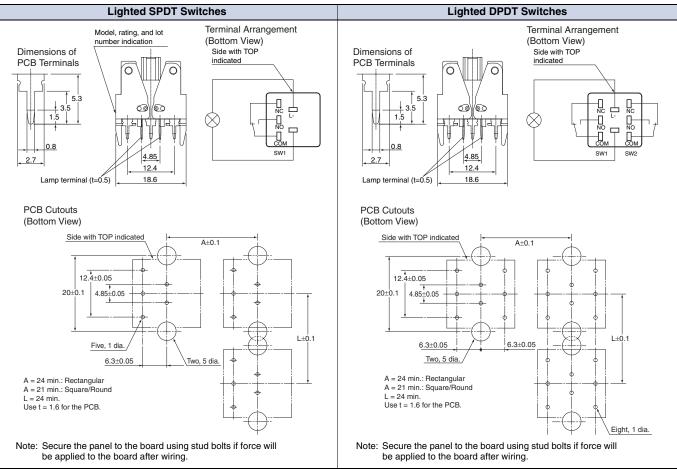
Models with Solder Terminals without Reduced-voltage Lighting (Lamp terminals are not provided with the Non-lighted Knob-type Selector Switches and Key-type Selector Switches.)



**Dimensions** 

(Unit: mm)

#### Models with PCB Terminals

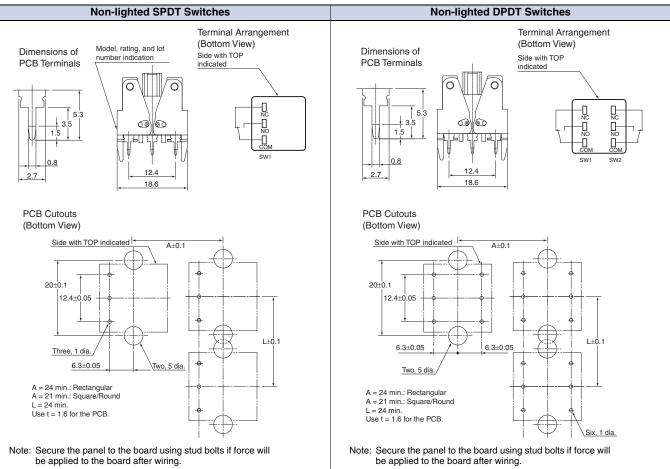


Note: For details of the terminal arrangement for Screw-Less Clamps, refer to the corresponding section for the A16.

(Unit: mm)

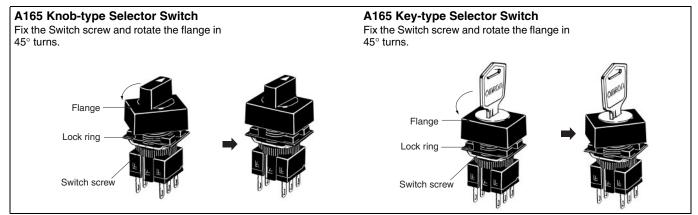
#### Dimensions

## 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/Indicators.

#### 🕂 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 mm<sup>2</sup>). 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.

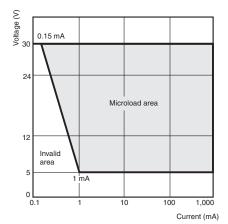
#### **Operating Environment**

• 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% ( $\lambda$  60) (conforming to JIS C5003).

The equation,  $\lambda 60 = 0.5 \times 10^{-6}$ /operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.



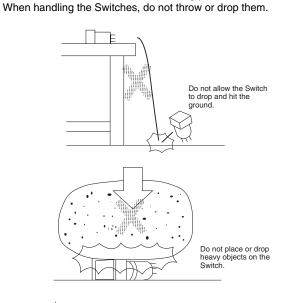
#### LED

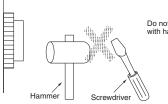
 The LED current-limiting resistor is built-in, so external resistance is not required.

Rated voltage	Internal limiting resistor
5 VDC	Red, yellow: 300 $\Omega$ Green: 160 $\Omega$
12 VAC/VDC	Red, yellow: 1 k $\Omega$ Green: 910 $\Omega$
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.

Warranties.

(a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.

(b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE

PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses 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. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See <u>http://www.omron.com/global/</u> or contact your Omron representative for published information.

#### Limitation on Liability; Etc.

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

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

#### Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buver's application or use of the Product. At Buver's request. Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

#### Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof

#### Performance Data.

Data presented in Omron Company websites, catalogs and other materials 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 user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

#### 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 part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

**OMRON** Corporation Industrial Automation Company

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rotary Switches category:

Click to view products by Omron manufacturer:

Other Similar products are found below :

57HS22-02-2-06N 57M22-02B16N 57M22-09A16N M3786/4-0881 M3786/4-3267 M3786/4-5568 M3786/4-6029 71ESF30-05204N MC06L1NCGF 84986-26 9003K2C003GA PLR3251 PLR3262 PS3 A0142M2SP A019605 A029303 R2AA4455NNNN R2BB4455NNNN DR75-AMSF-10R-B 14-520.0360 1703.3201 HW1MS-0202-101 24002-03S A029101 ACSNO-129-YB-C1014 ACSNO-134-RR-YB-C1005 ACSNO-353-SB-C3016 1825537-4 T505 T505E 24005-03N H10207RR01Q M3786/4-0002 M3786/4-0630 M3786/4-1028L M3786/4-1233L M3786/4-3044 M3786/4-3129 M3786/4-5008L M3786/4-5256 MC6CX1A502X009 42HS36-01-1-06N 42P36-03B10S 44MBS60-04-2-03N 44MG90-02-1-02N 50KMT90-01-2-02N 51A22-01-1-16S 51CDP30-01PAJN 51KSP30-01D04N