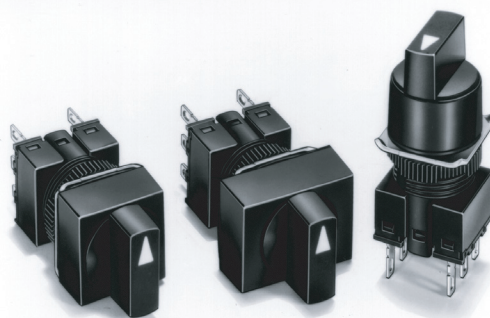


Knob-type Selector Switch A165S/W

Mounting Aperture of 16 mm

- Modular construction
- Oil-resistant IP65 models
- UL and cUL approved.
- Conforms to EN60947-5-1, IEC947-5-1
- Short mounting depth, less than 28.5 mm below panel
- Wide range of switching capacity from standard to microload
- Lighted and non-lighted models
- 2 and 3-notch models
- Manual and automatic reset models



Model Number Structure

Model Number Legend

Completely Assembled

The model numbers used to order sets of Units are illustrated below. One set comprises the Selector, Lamp (lighted models only), and Switch.

(1) (2) (3) (4) (5) (6)

A 1 6 5 W - A 2 A R - 24 D - 1

(1) Lighted/Non-lighted

| Symbol | Type |
|--------|-------------|
| S | Non-lighted |
| W | Lighted |

(2) Shape of Selector

| Symbol | Shape |
|--------|-----------------------|
| J | Rectangular |
| A | Square |
| T | Round |
| BA | Square (24-mm square) |

(3) Number of Notches/Resetting Method

| Symbol | No. of notches | Reset method |
|--------|----------------|--------------------------|
| 2M | 2 notches | Manual |
| 2A | | Automatic |
| 3M | 3 notches | Manual |
| 3A | | Automatic |
| 3MA | | CCW-manual, CW-automatic |
| | | CCW-automatic, CW-manual |
| 3AM | | |

(4) Color of Selector

| Symbol | Color |
|-----------|---------------------------------|
| No symbol | Black (non-lighted models only) |
| R | Red |
| G | Green |
| Y | Yellow |

(6) Contact Configuration

| Symbol | Type | Terminal |
|--------|------|------------------|
| 1 | SPDT | Solder terminal |
| 2 | DPDT | PCB terminal |
| 1P | SPDT | PCB terminal |
| 2P | DPDT | |
| 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 | Type |
|-----------|-------------|
| No symbol | Non-lighted |
| 24D | 24-V LED |

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

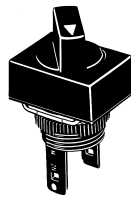
| Symbol | Type | Operating voltage | Rated voltage |
|--------|------|--------------------|---------------|
| T1 | LED | 90 to 121 VAC/VDC | 110 VAC/VDC |
| T2 | | 180 to 242 VAC/VDC | 220 VAC/VDC |

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

Subassembled

1. Selector

A165-□-□□□
1 2 3 4



1. Lighted/Non-lighted

S: Non-lighted
W: Lighted

2. Flange Shape

J: Rectangular
A: Square
T: Round
BA: Square (24-mm square)

3. Number of Notches/Reset Method

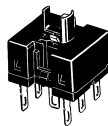
2M: 2 notches/Manual
2A: 2 notches/Automatic
3M: 3 notches/Manual
3A: 3 notches/Mixed-operation
3MA: 3 notches
3AM: 3 notches

4. Illumination Color

None: Black (Non-lighted models only)
R: Red
G: Green
Y: Yellow

2. Switch (Same as for Key-type Selector Switches)

A16S-□-□□□
1 2 3 4



1. Number of Notches

2N: 2 notches
3N: 3 notches

2. Contacts

1: SPDT
2: DPDT

3. Lighted/Non-lighted

None: Non-lighted
L: Lighted

4. Terminals

None: Solder terminals (tab terminals #110)

3. Lamp

A16-□□
1 2



1. Operating Voltage (Rated Voltage)

LED

5DS: 5 VDC (5 VDC)
12DS: 12 VDC (12 VDC)
24DS: 24 VDC (24 VDC)

2. Illumination Color

R: Red (LED)
G: Green (LED)
Y: Yellow (LED)

Ordering Information

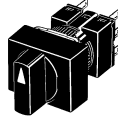
List of Models

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

A165□-J (Rectangular) Models

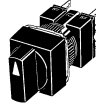


IP65 Oil-resistant

| No. of notches | Output | Reset method | Lighting method | Operating voltage | Model |
|----------------|--------|--------------|-----------------|-------------------|------------------|
| 2 notches | SPDT | Manual | LED | 24 VDC | A165W-J2M□-24D-1 |
| | | | Non-lighted | --- | A165S-J2M-1 |
| | | Automatic | LED | 24 VDC | A165W-J2A□-24D-1 |
| | | | Non-lighted | --- | A165S-J2A-1 |
| | DPDT | Manual | LED | 24 VDC | A165W-J2M□-24D-2 |
| | | | Non-lighted | --- | A165S-J2M-2 |
| Automatic | | LED | 24 VDC | A165W-J2A□-24D-2 | |
| | | Non-lighted | --- | A165S-J2A-2 | |
| 3 notches | DPDT | Manual | LED | 24 VDC | A165W-J3M□-24D-2 |
| | | | 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□-A (Square) Models



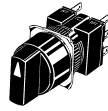
IP65 Oil-resistant

| No. of notches | Output | Reset method | Lighting method | Operating voltage | Model |
|----------------|--------|--------------|-----------------|-------------------|------------------|
| 2 notches | SPDT | Manual | LED | 24 VDC | A165W-A2M□-24D-1 |
| | | | Non-lighted | --- | A165S-A2M-1 |
| | | Automatic | LED | 24 VDC | A165W-A2A□-24D-1 |
| | | | Non-lighted | --- | A165S-A2A-1 |
| | DPDT | Manual | LED | 24 VDC | A165W-A2M□-24D-2 |
| | | | Non-lighted | --- | A165S-A2M-2 |
| Automatic | | LED | 24 VDC | A165W-A2A□-24D-2 | |
| | | Non-lighted | --- | A165S-A2A-2 | |
| 3 notches | DPDT | Manual | LED | 24 VDC | A165W-A3M□-24D-2 |
| | | | 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.

Pushbutton Switches

A165□-T (Round) Models



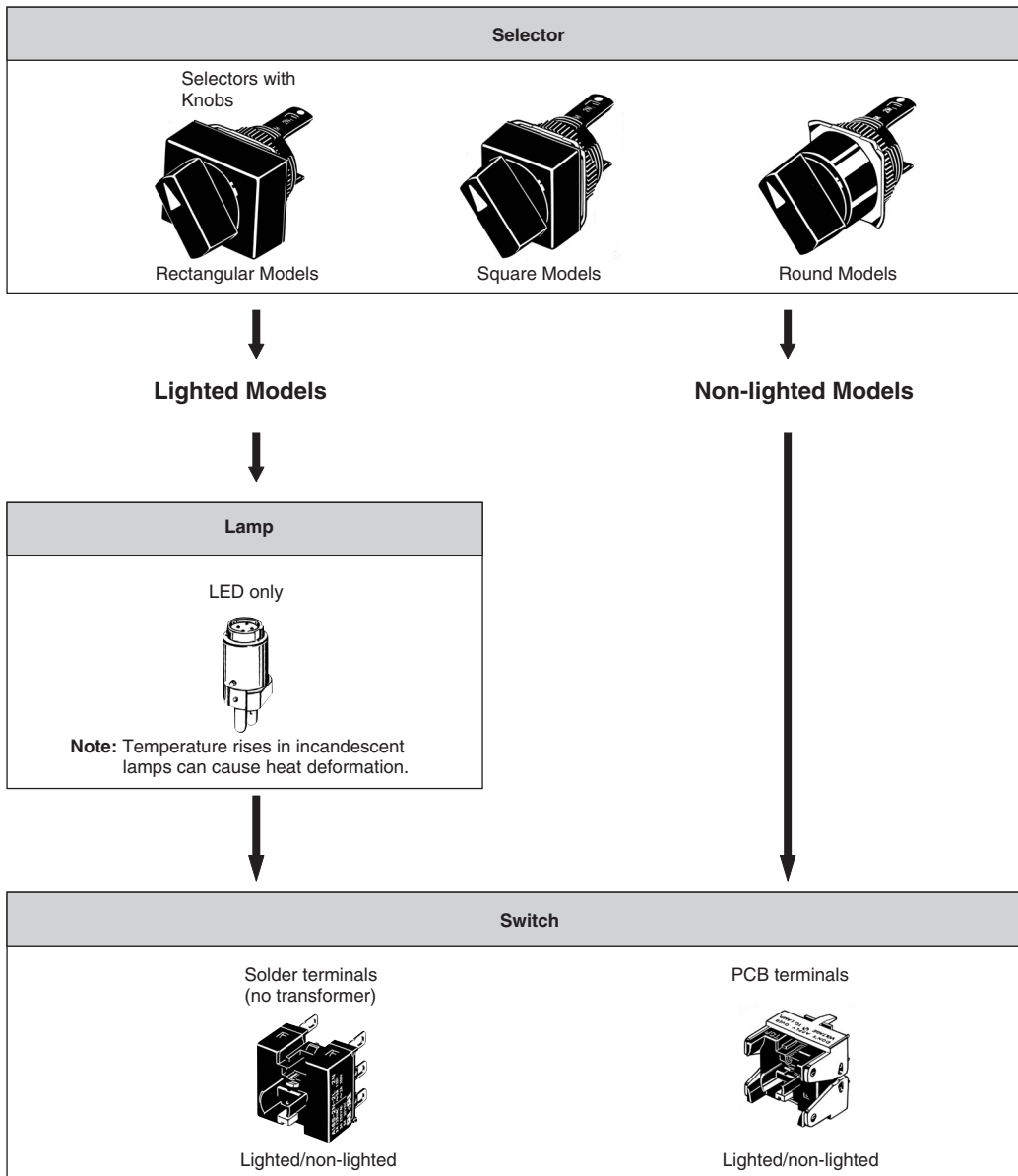
IP65 Oil-resistant

| No. of notches | Output | Reset method | Lighting method | Operating voltage | Model |
|----------------|-------------|--------------|------------------|-------------------|------------------|
| 2 notches | SPDT | Manual | LED | 24 VDC | A165W-T2M□-24D-1 |
| | | | Non-lighted | --- | A165S-T2M-1 |
| | | Automatic | LED | 24 VDC | A165W-T2A□-24D-1 |
| | | | Non-lighted | --- | A165S-T2A-1 |
| | DPDT | Manual | LED | 24 VDC | A165W-T2M□-24D-2 |
| | | | Non-lighted | --- | A165S-T2M-2 |
| Automatic | LED | 24 VDC | A165W-T2A□-24D-2 | | |
| | Non-lighted | --- | A165S-T2A-2 | | |
| 3 notches | DPDT | Manual | LED | 24 VDC | A165W-T3M□-24D-2 |
| | | | 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 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.



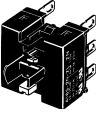
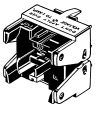
Pushbutton
Switches

Selectors (Oil-resistant IP65 Models Only)

| Appearance | Number of notches | Reset method | Lighting method | Operating voltage | Model | Selector color symbol |
|---|-------------------|---|-----------------|-------------------|-------------|--------------------------------------|
| Rectangular (A165□-J)  | 2 notches | Manual | LED | 24 VDC | A165W-J2M□ | R (red), Y (yellow), G (green) |
| | | | Non-lighted | --- | A165S-J2M | |
| | | Automatic  | LED | 24 VDC | A165W-J2A□ | |
| | | | Non-lighted | --- | A165S-J2A | |
| | 3 notches | Manual | LED | 24 VDC | A165W-J3M□ | |
| | | | Non-lighted | --- | A165S-J3M | |
| | | Fully automatic  | LED | 24 VDC | A165W-J3A□ | |
| | | | Non-lighted | --- | A165S-J3A | |
| | 3 notches | Mixed-operation  | LED | 24 VDC | A165W-J3MA□ | |
| | | | Non-lighted | --- | A165S-J3MA | |
| | | Mixed-operation  | LED | 24 VDC | A165W-J3AM□ | |
| | | | Non-lighted | --- | A165S-J3AM | |
| Square (A165□-A)  | 2 notches | Manual | LED | 24 VDC | A165W-A2M□ | R (red), Y (yellow), G (green) |
| | | | Non-lighted | --- | A165S-A2M | |
| | | Automatic  | LED | 24 VDC | A165W-A2A□ | |
| | | | Non-lighted | --- | A165S-A2A | |
| | 3 notches | Manual | LED | 24 VDC | A165W-A3M□ | |
| | | | Non-lighted | --- | A165S-A3M | |
| | | Fully automatic  | LED | 24 VDC | A165W-A3A□ | |
| | | | Non-lighted | --- | A165S-A3A | |
| | 3 notches | Mixed-operation  | LED | 24 VDC | A165W-A3MA□ | |
| | | | Non-lighted | --- | A165S-A3MA | |
| | | Mixed-operation  | LED | 24 VDC | A165W-A3AM□ | |
| | | | Non-lighted | --- | A165S-A3AM | |
| Round (A165□-T)  | 2 notches | Manual | LED | 24 VDC | A165W-T2M□ | R (red), Y (yellow), G (green) |
| | | | Non-lighted | --- | A165S-T2M | |
| | | Automatic  | LED | 24 VDC | A165W-T2A□ | |
| | | | Non-lighted | --- | A165S-T2A | |
| | 3 notches | Manual | LED | 24 VDC | A165W-T3M□ | |
| | | | Non-lighted | --- | A165S-T3M | |
| | | Fully automatic  | LED | 24 VDC | A165W-T3A□ | |
| | | | Non-lighted | --- | A165S-T3A | |
| | 3 notches | Mixed-operation  | LED | 24 VDC | A165W-T3MA□ | |
| | | | Non-lighted | --- | A165S-T3MA | |
| | | Mixed-operation  | LED | 24 VDC | A165W-T3AM□ | |
| | | | Non-lighted | --- | A165S-T3AM | |

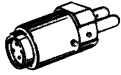
Note: 1. Enter the desired color symbol for the Selector in the □.
 2. The selector for non-lighted models is black.

Switches

| Appearance | Classification | | | | Model | |
|---|----------------|---|-----------|-----------|-----------------|-------------|
|  | Lighted | Socket (without voltage-reduction lighting) | 2 notches | SPDT | Solder terminal | A16S-2N-1L |
| | | | | DPDT | | A16S-2N-2L |
| | | | 3 notches | DPDT | | A16S-3N-2L |
| | Non-lighted | | 2 notches | SPDT | | A16S-2N-1 |
| | | | | DPDT | | A16S-2N-2 |
| | | | 3 notches | DPDT | | A16S-3N-2 |
|  | Lighted | | 2 notches | SPDT | PCB terminal | A16S-2N-1LP |
| | | | | DPDT | | A16S-2N-2LP |
| | | | | 3 notches | | DPDT |
| | Non-lighted | | 2 notches | SPDT | | A16S-2N-2P |
| | | | | DPDT | | |
| | | | 3 notches | DPDT | | |


Lamps

LED


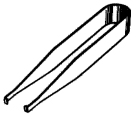
| Operating voltage | 5 VDC | 12 VDC | 24 VDC |
|---|----------|-----------|-----------|
| Light color  | | | |
| Red | A16-5DSR | A16-12DSR | A16-24DSR |
| Yellow | A16-5DSY | A16-12DSY | A16-24DSY |
| Green | A16-5DSG | A16-12DSG | A16-24DSG |

Accessories (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 |
| | | 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. 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. |

Specifications

■ Approved Standards

| Agency | Standards | File No. |
|---------------------|-------------|----------|
| UL, cUL (See note.) | UL508 | E41515 |
| --- | EN60947-5-1 | --- |

Note: cUL: CSA, C22.2 No. 14

■ 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)

EN60947-5-1 (Low Voltage Directive)

3 A at 250 VAC (AC12), 3 A at 30 VDC (DC12)

■ Ratings

Contacts

| AC resistive load | DC resistive load |
|----------------------------------|-------------------|
| 3 A at 250 VAC 5 A at 125 VAC | 3 A at 30 VDC |

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

Super-bright LED

| Rated voltage | Rated current | Operating voltage | Internal limiting resistor |
|---------------|---------------|-------------------|----------------------------|
| 5 VDC | 30 mA (15 mA) | 5 VDC±5% | 33 Ω (68 Ω) |
| 12 VDC | 15 mA | 12 VDC±5% | 270 Ω (560 Ω) |
| 24 VDC | 10 mA | 24 VDC±5% | 1600 Ω (2,000 Ω) |

Note: The values in parentheses are for blue Selectors.

■ Characteristics

| Item | Knob-type Selector Switch | |
|---------------------------------|--|--|
| Allowable operating frequency | Mechanical | 20 operations/minute max. |
| | Electrical | 10 operations/minute max. |
| Insulation resistance | 100 MΩ min. (at 500 VDC) | |
| Dielectric strength | 1,000 VAC, 50/60 Hz for 1 min between terminals of same polarity 2,000 VAC, 50/60 Hz for 1 min between terminals of different polarity and also between each terminal and ground 1,000 VAC, 50/60 Hz for 1 min between lamp terminals (see note 2) | |
| Vibration resistance | Malfunction | 10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms) |
| Shock resistance | Mechanical | 500 m/s ² |
| | Malfunction | 150 m/s ² max. (malfunction within 1 ms) |
| Durability | Mechanical | 250,000 operations min. |
| | Electrical | 100,000 operations min. |
| Ambient temperature | Operating: -10°C to 55°C (with no icing or condensation) Storage: -25°C to 65°C (with no icing or condensation) | |
| Ambient humidity | Operating: 35% to 85% | |
| Electric shock protection class | Class II | |
| PTI (tracking characteristic) | 175 | |
| Degree of contamination | 3 (IEC947-5-1) | |
| Weight | Approx. 13 g (in the case of a lighted DPDT switch) | |

- Note: 1. Set and reset constitute one operation.
2. With LED and incandescent lamp not mounted.

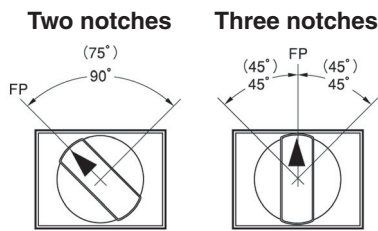
Screw-less Clamp

| Item | | 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 | 0.3mm 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 | | | |

Operating Characteristics

| Features | Type | Knob-type Selector Switch | |
|---------------------------|------|---------------------------|---------------------------------|
| | | 2 notches | 3 notches |
| Operating force (OF) max. | | 9.8 N·m | |
| Set position (SP) | | 90±5° | 45 ^{+10°} ₀ |

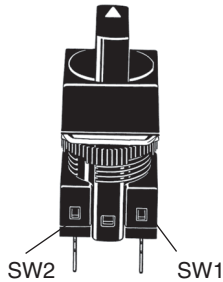
Operation Angle



Note: 1. The angle used for automatic reset is shown in parentheses.
2. FP: Free Position

Contact Form

| Name | Contact |
|------|---------|
| SPDT | |



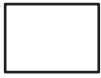
| Notch | Contact | | | | |
|-----------|----------|----|----------|-----|-----|
| | SPDT | | DPDT | | |
| | Position | SW | Position | SW2 | SW1 |
| 2 notches | | | | | |
| | | | | | |
| 3 notches | --- | | | | |
| | | | | | |
| | | | | | |

Nomenclature

Selector

Flange Shape

Rectangular (A165□-J)



Square (A165□-A)



Round (A165□-T)



Protective Structure

- Oil-resistant IP65

Color of Selector

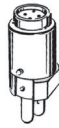
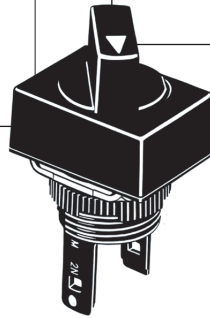
- LED models
Red, green, yellow
- Non-lighted models
Black

Lighting Method

- Lighted (LED) models
(The upper face of the knob is illuminated.)
- Non-lighted models

Number of Notches and Reset Method

- **2 Notches**
Manual reset
Automatic reset
- **3 Notches**
Manual reset
Automatic reset



Lamp

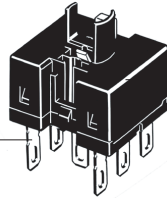
Switch

Switch Specifications

- **Standard Loads**
5 A at 125 VAC
5 A at 250 VAC
3 A at 30 VDC
Minimum applicable load: 1 mA at 5 VDC

Terminal Type

- Solder terminals
(tab terminals #110)
- PCB terminals



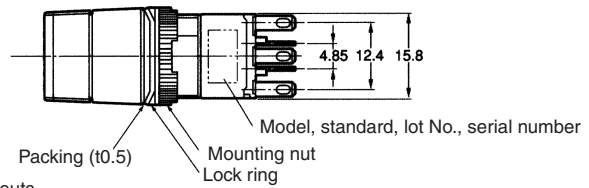
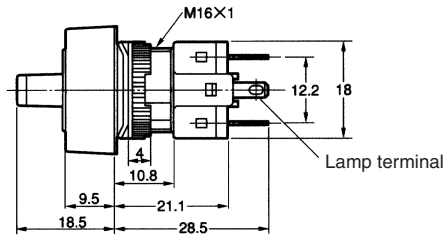
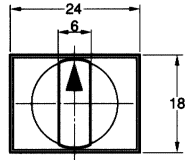
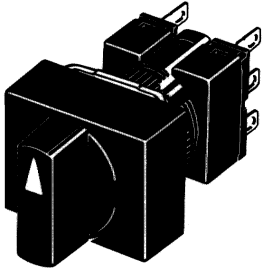
Dimensions

Note: All units are in millimeters unless otherwise indicated.

■ Knob-type Selector Switches without Voltage Reduction Unit

Rectangular A165□-J

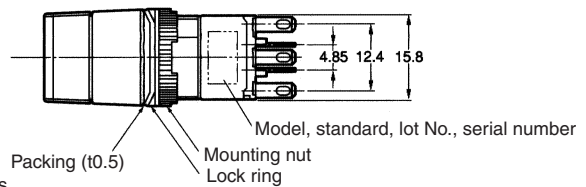
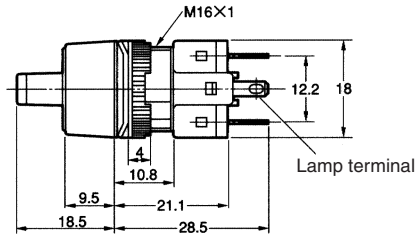
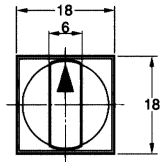
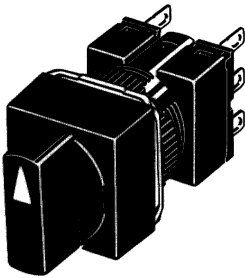
Solder terminals (tab terminals #110)



Note: See page 14 for panel cutouts.

Square A165□-A

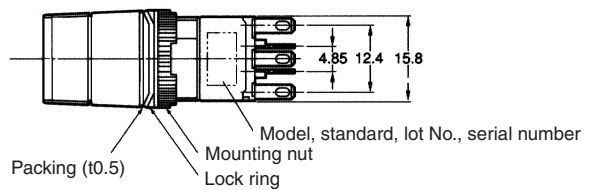
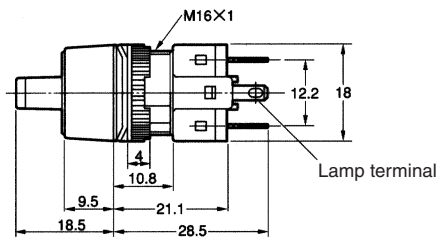
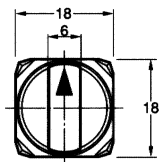
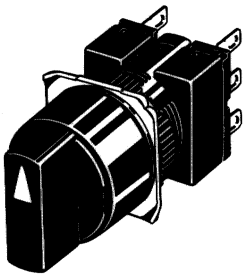
Solder terminals (tab terminals #110)



Note: See page 14 for panel cutouts.

Round A165□-T

Solder terminals (tab terminals #110)



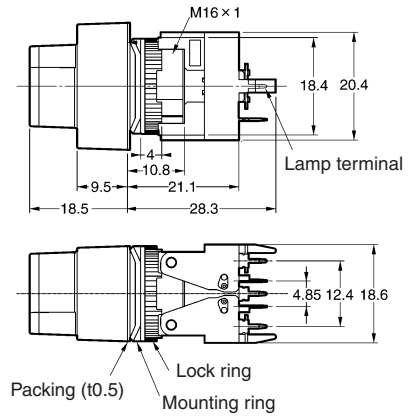
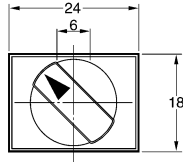
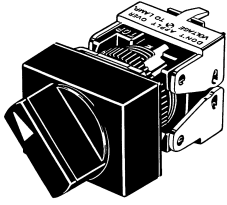
Note: See page 14 for panel cutouts.

Pushbutton
Switches

The following diagrams show the rectangular model as a representative example. The lamp terminal is also provided with non-lighted models.

**Rectangular
A165□-J**

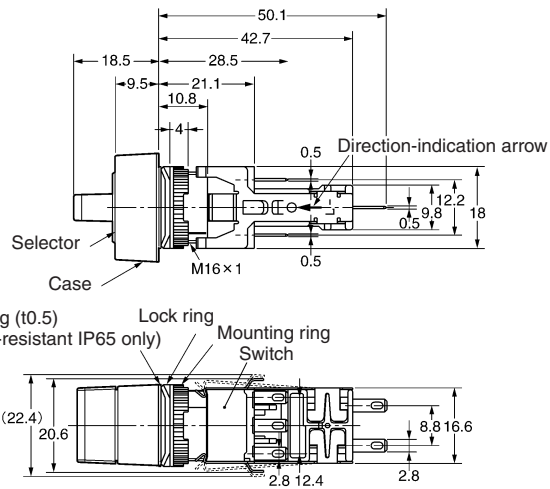
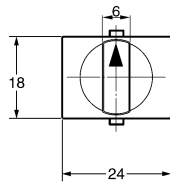
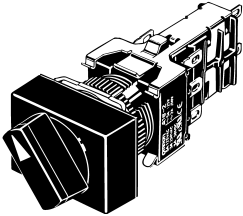
PCB terminals



Note: See page 14 for panel cutouts.

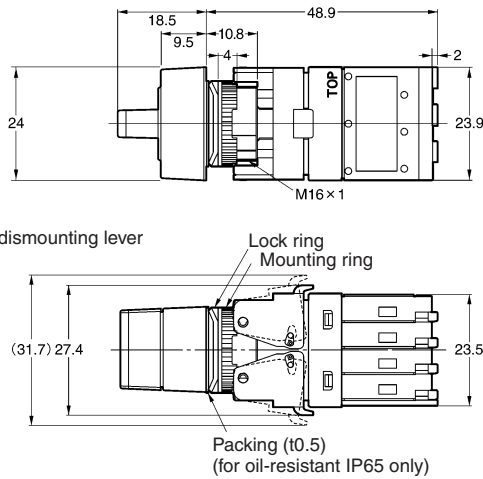
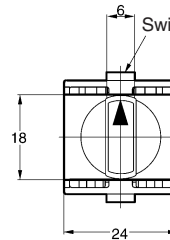
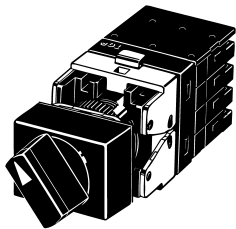
**Rectangular
A165W□-T**

Reduced-voltage lighting, solder terminals (tab terminals #110)



**Rectangular
A165□-2S**

Screw-Less Clamp

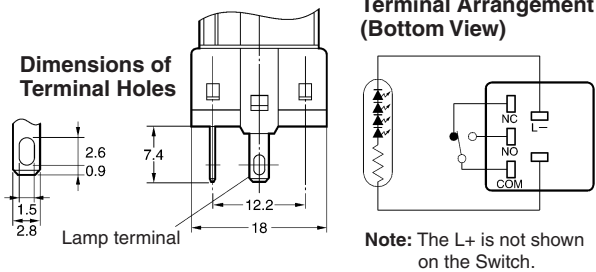


Terminal Arrangement

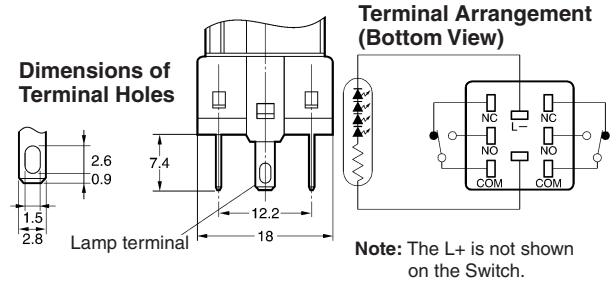
Models with Solder Terminals without Reduced-voltage Lighting

Lamp terminals are not provided with the Non-lighted Knob-type Selector Switches and Key-type Selector Switches.

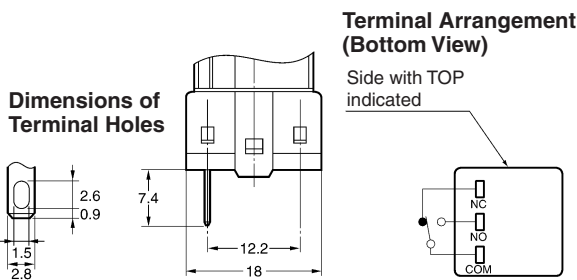
Lighted SPDT Switches



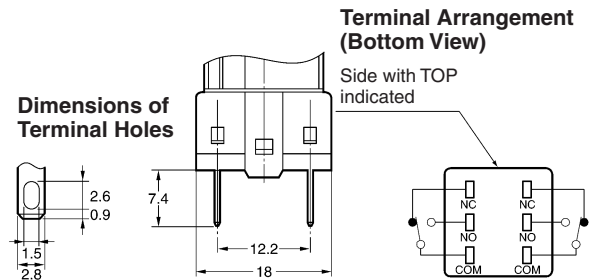
Lighted DPDT Switches



Non-lighted SPDT Switches

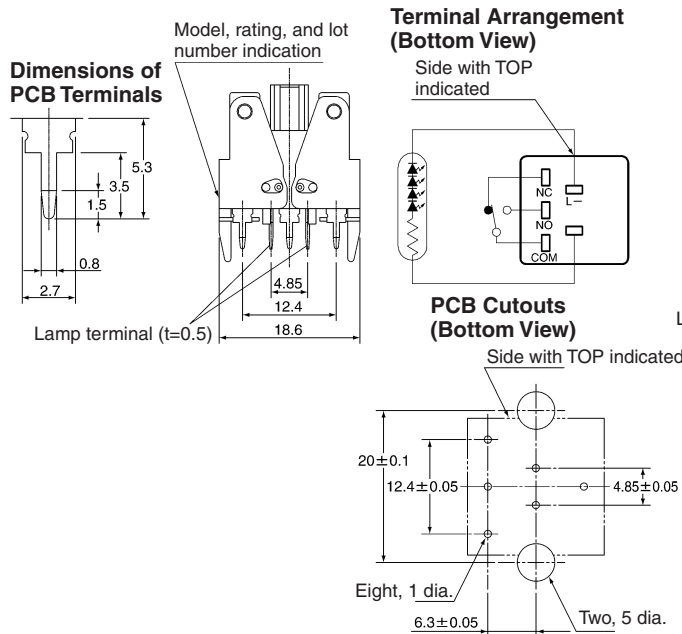


Non-lighted DPDT Switches

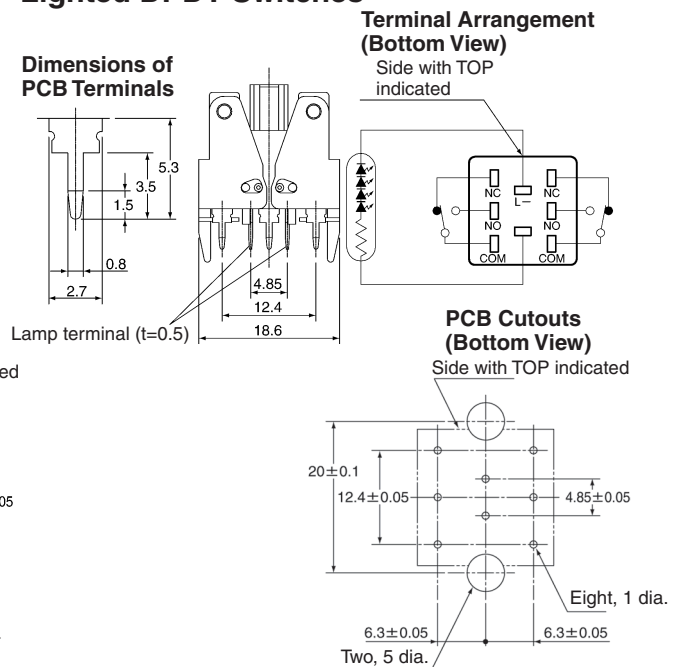


Models with PCB Terminals

Lighted SPDT Switches



Lighted DPDT Switches

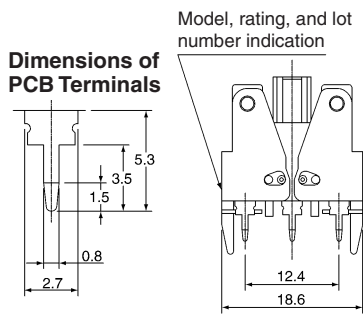


Note: For details of the terminal arrangement for Screw-Less Clamps, refer to the corresponding section for the A16.

Non-lighted Models with PCB Terminals

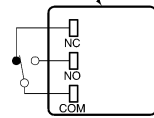
Lamp terminals are not provided with the Non-lighted Knob-type Selector Switches and Key-type Selector Switches.

Non-lighted SPDT Switches



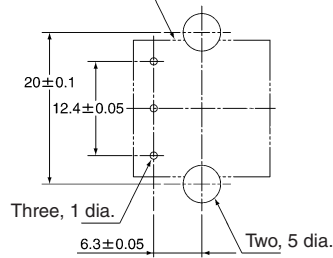
Terminal Arrangement (Bottom View)

Side with TOP indicated



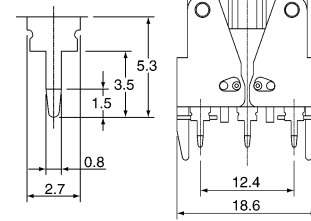
PCB Cutouts (Bottom View)

Side with TOP indicated

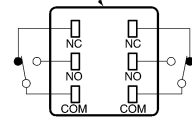


Non-lighted DPDT Switches

Dimensions of PCB Terminals

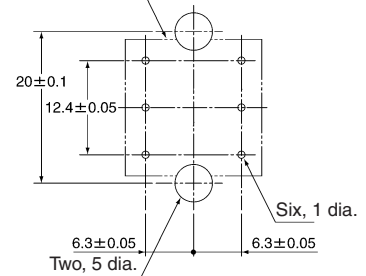


Side with TOP indicated



PCB Cutouts (Bottom View)

Side with TOP indicated

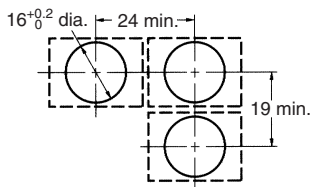


■ Panel Cutouts

Models with Solder Terminals

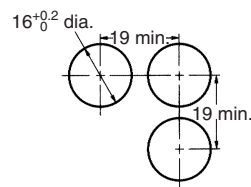
Rectangular A165□-J

(Top View)



Square A165□-A Round A165□-T

(Top View)



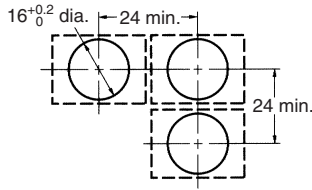
Note: 1. Make sure the thickness of the mounting panel is 0.5 to 3.2 mm.

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

Models with PCB Terminals

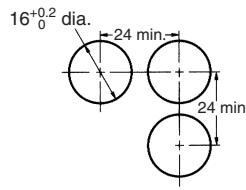
Rectangular A165□-J

(Top View)

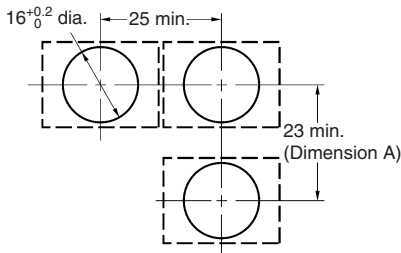


Square A165□-A Round A165□-T

(Top View)

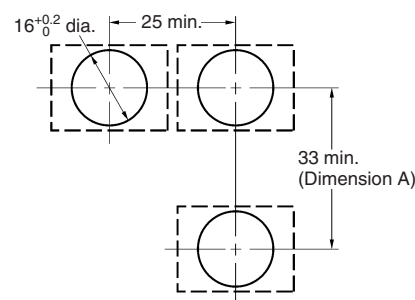


Rectangular A165W□-T



Recommended panel thickness: 0.5 to 3.2 mm

Rectangular A165□-2S



Recommended panel thickness: 0.5 to 3.2 mm

- 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.

Installation

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

■ Panel Mounting

Refer to the *Installation* section for the A16.

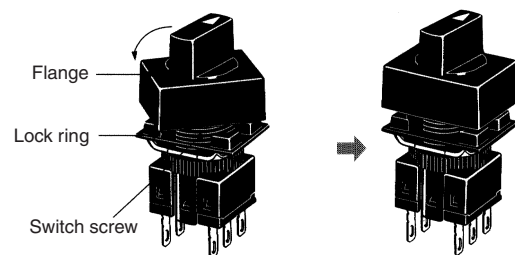
■ Mounting and Replacing the Pushbutton

Refer to the *Installation* section for the A16.

■ Flange Rotation

A165 Knob-type Selector Switch

Fix the Switch screw and rotate the flange in 45° turns.



Precautions

Refer to the *Technical Information for Pushbutton Switches* (Cat. No. A143) and the *Precautions* section for the A16.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. A125-E1-02

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

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