Pushbutton Switch (Detachable) (Lighted/Non-Lighted) (Cylindrical 16-dia.)

A16

Separate Construction with Cylindrical 16-dia. Body

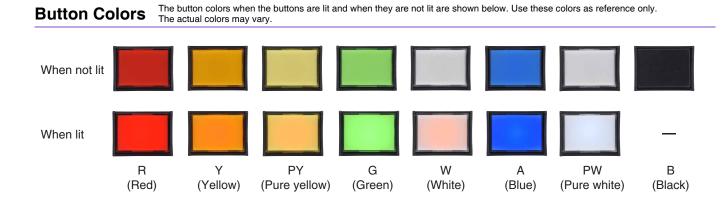
- Miniature design of 28.5 mm, the smallest class in the industry.
- Detachable Switch.
- The same contacts can be used for both standard loads and microloads.
- Easy-to-wire terminal arrangement.
- Certified for EN 60947-5-1.



Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions on page 24.

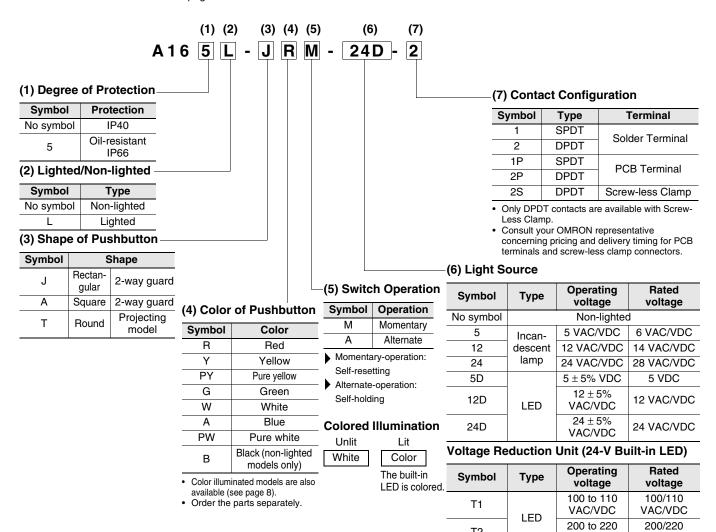
List of Models

	Model					
	Rectangular	Square	Round			
Solder terminals	A16-J Series	A16 -A Series	A16-T Series			
PCB terminals	A16□-J Series	A16D-A Series	A16-T Series			
Voltage-reduction lighting solder terminals	A16-J Series	A16-A Series	A16□-T Series			
Screw-less clamp models	A16-J Series	A16-A Series	A16-T Series			



Model Number Structure

Model Number Legend The model numbers used to order sets of Units are illustrated below. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch. For information on combinations, refer to Ordering Information on pages 3 to 7.



Solder terminals are available only with 100-V models.

VAC/VDC

VAC/VDC

The Voltage Reduction Unit is not available for models with PCB terminals

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

T2

Rectangular Models

Oil-resistant IP66

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch.

Solder Terminal Models

IP40			A16□-J			
Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1	
	LED without	5 VDC	A16L-J□M-5D-1	A16L-J□A-5D-1	R: red, Y: yellow	
	Voltage Reduction	12 VAC/VDC	A16L-J□M-12D-1	A16L-J_A-12D-1	G: green, A: blue	
	Unit	24 VAC/VDC	A16L-J_M-24D-1	A16L-J□A-24D-1	W: white PW: pure white	
SPDT	Incandescent lamp	5 VAC/VDC	A16L-J□M-5-1	A16L-J□A-5-1	R: red, Y: yellow	
		12 VAC/VDC	A16L-J_M-12-1	A16L-J_A-12-1	PY: pure yellow	
		24 VAC/VDC	A16L-J_M-24-1	A16L-J_A-24-1	G: green, W: white	
	Non-lighted		A16-J□M-1	A16-J□A-1	B: black *2	
	LED without	5 VDC	A16L-J⊡M-5D-2	A16L-J_A-5D-2	R: red, Y: yellow PY: pure yellow	
	Voltage Reduction	12 VAC/VDC	A16L-J□M-12D-2	A16L-J□A-12D-2	G: green, A: blue	
	Unit	24 VAC/VDC	A16L-J□M-24D-2	A16L-J□A-24D-2	PW: pure white	
DPDT		5 VAC/VDC	A16L-J□M-5-2	A16L-J_A-5-2	R: red, Y: yellow	
	Incandescent lamp	12 VAC/VDC	A16L-J□M-12-2	A16L-J□A-12-2	PY: pure yellow	
	ianip	24 VAC/VDC	A16L-J_M-24-2	A16L-J_A-24-2	G: green, W: white A: blue	
	Non-lighted		A16-J□M-2	A16-J□A-2	B: black *2	

*1. Enter the desired color symbol for the Pushbutton in the $\square.$ *2. Black ("B") Pushbuttons are only available for non-lighted models.



Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1	
	LED without	5 VDC	A165L-J□M-5D-1	A165L-J□A-5D-1	R: red, Y: yellow	
	Voltage Reduction	12 VAC/VDC	A165L-J□M-12D-1	A165L-J□A-12D-1	- PY: pure yellow G: green, A: blue	
	Unit	24 VAC/VDC	A165L-J□M-24D-1	A165L-J_A-24D-1	W: white PW: pure white	
SPDT		5 VAC/VDC	A165L-J□M-5-1	A165L-J□A-5-1	R: red, Y: yellow PY: pure yellow G: green, W: white A: blue	
	Incandescent Iamp	12 VAC/VDC	A165L-J□M-12-1	A165L-J_A-12-1		
		24 VAC/VDC	A165L-J□M-24-1	A165L-J_A-24-1		
	Non-lighted		A165-J□M-1	A165-J□A-1	B: black *2	
	LED without	5 VDC	A165L-J□M-5D-2	A165L-J□A-5D-2	R: red, Y: yellow PY: pure yellow	
	Voltage Reduction	12 VAC/VDC	A165L-J□M-12D-2	A165L-J□A-12D-2	G: green, A: blue W: white	
DPDT	Unit	24 VAC/VDC	A165L-J□M-24D-2	A165L-J□A-24D-2	PW: pure white	
		5 VAC/VDC	A165L-J□M-5-2	A165L-J_A-5-2	R: red, Y: yellow	
	Incandescent lamp	12 VAC/VDC	A165L-J□M-12-2	A165L-J_A-12-2	PY: pure yellow	
	ianip	24 VAC/VDC	A165L-J□M-24-2	A165L-J_A-24-2	G: green, W: white A: blue	
	Non-lighted		A165-J□M-2	A165-J_A-2	B: black *2	

*1. Enter the desired color symbol for the Pushbutton in the □.
 *2. Black ("B") Pushbuttons are only available for non-lighted models.

Individual models: Refer to pages 9 to 13.

(The Pushbutton, Lamp, Case, and Switch can be ordered separately.)

■ Ratings: Refer to page 16. ■ Characteristics: Refer to page 16. Accessories: Refer to page 15.

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch.

Solder Terminal Models

Square Models

IP40



Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1
	LED without	5 VDC	A16L-A□M-5D-1	A16L-A□A-5D-1	R: red, Y: yellow
	Voltage Reduction	12 VAC/VDC	A16L-A□M-12D-1	A16L-A A-12D-1	 PY: pure yellow G: green, A: blue W: white
	Unit	24 VAC/VDC	A16L-A□M-24D-1	A16L-A_A-24D-1	PW: pure white
SPDT		5 VAC/VDC	A16L-A□M-5-1	A16L-A□A-5-1	R: red, Y: yellow
	Incandescent Iamp	12 VAC/VDC	A16L-A M-12-1	A16L-A A-12-1	PY: pure yellow G: green, W: white A: blue
		24 VAC/VDC	A16L-A□M-24-1	A16L-A_A-24-1	
	Non-lighted		A16-A□M-1	A16-A□A-1	B: black *2
	LED without	5 VDC	A16L-A□M-5D-2	A16L-A□A-5D-2	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A16L-A□M-12D-2	A16L-A□A-12D-2	G: green, A: blue W: white
	Unit	24 VAC/VDC	A16L-A□M-24D-2	A16L-A□A-24D-2	PW: pure white
DPDT		5 VAC/VDC	A16L-A□M-5-2	A16L-A□A-5-2	R: red, Y: yellow
	Incandescent lamp	12 VAC/VDC	A16L-A_M-12-2	A16L-A_A-12-2	PY: pure yellow
		24 VAC/VDC	A16L-A M-24-2	A16L-A_A-24-2	 G: green, W: white A: blue
	Non-lighted		A16-A□M-2	A16-A□A-2	B: black *2

*1. Enter the desired color symbol for the Pushbutton in the $\square.$ *2. Black ("B") Pushbuttons are only available for non-lighted models.



Oil-resistant IP66

		Item	Momentary operation	Alternate operation	Pushbutton color
Output	Lighting	Operating voltage	(Self-resetting)	(Self-holding)	symbol *1
	LED without	5 VDC	A165L-A M-5D-1	A165L-A□A-5D-1	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A165L-A□M-12D-1	A165L-A□A-12D-1	G: green, A: blue W: white
	Unit	24 VAC/VDC	A165L-A□M-24D-1	A165L-A□A-24D-1	PW: pure white
SPDT		5 VAC/VDC	A165L-A□M-5-1	A165L-A□A-5-1	R: red, Y: yellow
	Incandescent Iamp	12 VAC/VDC	A165L-A_M-12-1	A165L-A_A-12-1	PY: pure yellow G: green, W: white A: blue
		24 VAC/VDC	A165L-A_M-24-1	A165L-A_A-24-1	
	Non-lighted		A165-A□M-1	A165-A□A-1	B: black *2
	LED without	5 VDC	A165L-A□M-5D-2	A165L-A□A-5D-2	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A165L-A M-12D-2	A165L-A□A-12D-2	G: green, A: blue W: white
DDDT	Unit	24 VAC/VDC	A165L-A□M-24D-2	A165L-A□A-24D-2	PW: pure white
DPDT		5 VAC/VDC	A165L-A□M-5-2	A165L-A□A-5-2	R: red, Y: yellow
	Incandescent lamp	12 VAC/VDC	A165L-A M-12-2	A165L-A_A-12-2	PY: pure yellow G: green, W: white
	P	24 VAC/VDC	A165L-A□M-24-2	A165L-A A-24-2	A: blue
	Non-lighted		A165-A□M-2	A165-A□A-2	B: black *2

*1. Enter the desired color symbol for the Pushbutton in the $\square.$ *2. Black ("B") Pushbuttons are only available for non-lighted models.

Individual models: Refer to pages 9 to 13.

(The Pushbutton, Lamp, Case, and Switch can be ordered separately.)

■ Ratings: Refer to page 16. ■ Characteristics: Refer to page 16. Accessories: Refer to page 15.

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch.

Solder Terminals

Round Models
IP40



Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1
	LED without	5 VDC	A16L-T□M-5D-1	A16L-T□A-5D-1	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A16L-T□M-12D-1	A16L-T_A-12D-1	G: green, A: blue W: white
	Unit	24 VAC/VDC	A16L-T□M-24D-1	A16L-T_A-24D-1	PW: pure white
SPDT		5 VAC/VDC	A16L-T□M-5-1	A16L-T_A-5-1	R: red, Y: yellow
	Incandescent Iamp	12 VAC/VDC	A16L-T□M-12-1	A16L-T_A-12-1	PY: pure yellow
		24 VAC/VDC	A16L-T□M-24-1	A16L-T□A-24-1	G: green, W: white A: blue
	Non-lighted		A16-T□M-1	A16-T□A-1	B: black *2
	LED without	5 VDC	A16L-T□M-5D-2	A16L-T_A-5D-2	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A16L-T□M-12D-2	A16L-T_A-12D-2	G: green, A: blue W: white
	Unit	24 VAC/VDC	A16L-T□M-24D-2	A16L-T_A-24D-2	PW: pure white
DPDT		5 VAC/VDC	A16L-T□M-5-2	A16L-T□A-5-2	R: red, Y: yellow
	Incandescent lamp	12 VAC/VDC	A16L-T□M-12-2	A16L-T_A-12-2	PY: pure yellow
	P	24 VAC/VDC	A16L-T□M-24-2	A16L-T_A-24-2	G: green, W: white A: blue
	Non-lighted	·	A16-T□M-2	A16-T□A-2	B: black *2

*1. Enter the desired color symbol for the Pushbutton in the \Box . *2. Black ("B") Pushbuttons are only available for non-lighted models.



Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1
	LED without	5 VDC	A165L-T□M-5D-1	A165L-T□A-5D-1	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A165L-T M-12D-1	A165L-T□A-12D-1	G: green, A: blue
	Unit	24 VAC/VDC	A165L-T□M-24D-1	A165L-T□A-24D-1	PW: pure white
SPDT		5 VAC/VDC	A165L-T□M-5-1	A165L-T□A-5-1	R: red, Y: yellow
	Incandescent Iamp	12 VAC/VDC	A165L-T□M-12-1	A165L-T_A-12-1	PY: pure yellow G: green, W: white
		24 VAC/VDC	A165L-T□M-24-1	A165L-T□A-24-1	A: blue
	Non-lighted		A165-T□M-1	A165-T_A-1	B: black *2
	LED without	5 VDC	A165L-T□M-5D-2	A165L-T□A-5D-2	R: red, Y: yellow PY: pure yellow
	Voltage Reduction	12 VAC/VDC	A165L-T□M-12D-2	A165L-T□A-12D-2	G: green, A: blue W: white
DDDT	Unit	24 VAC/VDC	A165L-T□M-24D-2	A165L-T□A-24D-2	PW: pure white
DPDT		5 VAC/VDC	A165L-T□M-5-2	A165L-T□A-5-2	R: red, Y: yellow
	Incandescent lamp	12 VAC/VDC	A165L-T□M-12-2	A165L-T□A-12-2	PY: pure yellow G: green, W: white
		24 VAC/VDC	A165L-T_M-24-2	A165L-T□A-24-2	A: blue
	Non-lighted		A165-T⊡M-2	A165-T□A-2	B: black *2

*1. Enter the desired color symbol for the Pushbutton in the \Box . *2. Black ("B") Pushbuttons are only available for non-lighted models.

Individual models: Refer to pages 9 to 13.

(The Pushbutton, Lamp, Case, and Switch can be ordered separately.)

■ Ratings: Refer to page 16. ■ Characteristics: Refer to page 16. Accessories: Refer to page 15.

Oil-resistant IP66

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch.

Models with Reduced-voltage Lighting and Solder Terminals



A16□-T1 Note: Models with voltage ratings of 200 to 220 VAC/DC (T2 models) are listed with models with screw-less clamp

Output	Lighting	Item Operating voltage	(Oalf was attin w)	Alternate operation (Self-holding)	Pushbutton color symbol *
SPDT	LED (with built-in	100/110 VAC/VDC	A16L-∆⊡M-T1-1	A16L-∆□A-T1-1	R: red, Y: yellow PY: pure yellow
DPDT	reduced-voltage lighting function)	100/110 VAC/VDC	A16L-∆⊡M-T1-2	A16L-∆□A-T1-2	G: green, W: white A: blue PW: pure white

* Enter the desired shape for the Pushbutton in Δ : J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the \Box .

Oil-resistant IP66

IP40

Output	Lighting	Item Operating voltage		Alternate operation (Self-holding)	Pushbutton color symbol *
SPDT	LED (with built-in	100/110 VAC/VDC	А165L-∆□М-Т1-1	A165L-∆□A-T1-1	R: red, Y: yellow PY: pure yellow
DPDT	reduced-voltage	100/110 VAC/VDC	A165L-∆⊡M-T1-2	A165L-∆□A-T1-2	G: green, W: white A: blue PW: pure white

* Enter the desired shape for the Pushbutton in Δ : J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the \Box .

Screw-less Clamp Models



IP40

		Item	Momentary operation	Alternate operation	Pushbutton color
Output	Lighting	Operating voltage	(Self-resetting)	(Self-holding)	symbol *1
		5 VDC	A16L-∆⊡M-5D-2S	A16L-∆□A-5D-2S	
	LED	12 VAC/VDC	A16L-∆⊡M-12D-2S	A16L-∆□A-12D-2S	R: red, Y: yellow
		24 VAC/VDC	A16L-∆□M-24D-2S	A16L-∆□A-24D-2S	PY: pure yellow G: green, W: white A: blue PW: pure white B: black *2
	LED (with built-in reduced-voltage lighting function)	100/110 VAC/VDC	A16L-∆⊡M-T1-2S	A16L-∆□A-T1-2S	
		200/220 VAC/VDC	A16L-∆⊡M-T2-2S	A16L-∆□A-T2-2S	
	Non-lighted	*	A16-∆⊡M-2S	A16-∆□A-2S	

*1. Enter the desired shape for the Pushbutton in ∆: J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the □. *2. Black ("B") Pushbuttons are only available for non-lighted models.

Oil-resistant IP66

Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Alternate operation (Self-holding)	Pushbutton color symbol *1
output	LED	5 VDC	A165L-∆□M-5D-2S	A165L-∆□A-5D-2S	
		12 VAC/VDC	A165L-∆⊡M-12D-2S	A165L-∆□A-12D-2S	R: red, Y: yellow
		24 VAC/VDC	A165L-∆⊡M-24D-2S	A165L-∆□A-24D-2S	PY: pure yellow G: green, W: white A: blue PW: pure white B: black *2
DPDT	LED (with built-in reduced-voltage lighting function)	100/110 VAC/VDC	A165L-∆⊡M-T1-2S	A165L-∆□A-T1-2S	
		200/220 VAC/VDC	A165L-∆⊡M-T2-2S	A165L-∆⊡A-T2-2S	
	Non-lighted		A165-∆⊡M-2S	A165-∆□A-2S	+

*1. Enter the desired shape for the Pushbutton in Δ : J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the \Box .

*2. Black ("B") Pushbuttons are only available for non-lighted models.

Ordering as a Set The model numbers used to order sets of Units are given in the following tables. One set comprises the Pushbutton, Lamp (lighted models only), Case, and Switch.

Models with PCB Terminals



IP40

Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Pushbutton color symbol *1
		5 VDC	A16L-∆⊡M-5D-1P	R: red
CDDT	LED	12 VAC/VDC	А16L-∆□М-12D-1Р	
SPDT		24 VAC/VDC	А16L-∆□М-24D-1Р	
	Non-lighted		A16-∆⊡M-1P	Y: yellow PY: pure yellow
		5 VDC	А16L-∆□М-5D-2Р	G: green A: blue W: white
DPDT	LED	12 VAC/VDC	А16L-∆□М-12D-2P	B: black *2
DFDI		24 VAC/VDC	А16L-∆□М-24D-2Р	
	Non-lighted		A16-∆□M-2P	

Note: Contact your OMRON representative about Selector Switches and Key Selector Switches. *1. Enter the desired shape for the Pushbutton in Δ : J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the \Box . *2. Black ("B") Pushbuttons are only available for non-lighted models.

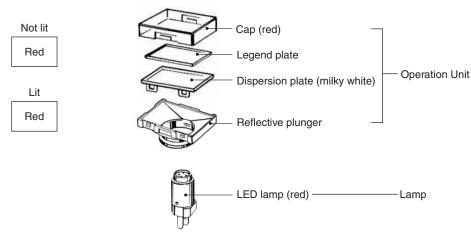
IP66

Output	Lighting	Item Operating voltage	Momentary operation (Self-resetting)	Pushbutton color symbol *1		
		5 VDC	A165L-∆⊡M-5D-1P			
CODT	LED	12 VAC/VDC	A165L-∆⊡M-12D-1P			
SPDT		24 VAC/VDC	A165L-∆□M-24D-1P	R: red		
	Non-lighted		A165-∆⊡M-1P	Y: yellow PY: pure yellow		
	LED	5 VDC	А165L-∆□М-5D-2Р	G: green A: blue W: white		
		12 VAC/VDC	A165L-∆□M-12D-2P	B: black *2		
DPDT		24 VAC/VDC	A165L-∆□M-24D-2P			
	Non-lighted		A165-∆□M-2P			

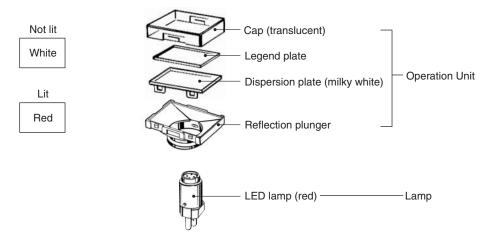
Note: Contact your OMRON representative about Selector Switches and Key Selector Switches. *1. Enter the desired shape for the Pushbutton in ∆: J (rectangular), A (square), or T (round). Enter the desired color symbol for the Pushbutton in the □. *2. Black ("B") Pushbuttons are only available for non-lighted models.

Illumination Only and Colored Illumination for Models with LEDs

With illumination only, the color of the lighted surface is the same when the LED is lit and when it is not lit. Example: Red Illumination



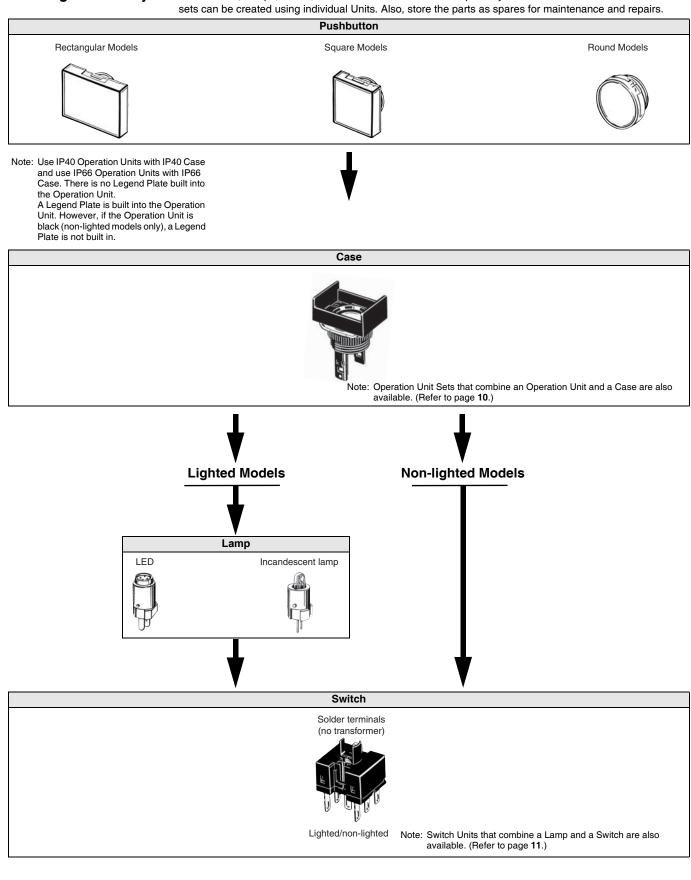
With colored illumination, the color of the lighted surface is white when the LED is not lit and the LED emits another color when it is lit. Example: Red Illumination



Ordering: For colored illumination, order the Pushbutton, Case, Lamp, and Switch separately.

Color emitted when lit	Operation Unit	Case	Lamp (LED)		Switch
Red	IP40 A16L-⊟W	IP40 • Momentary: A16-C⊡M	A16-□DSR		
Yellow	IP66 A165L-□W Insert one of the fol- lowing symbols into the box (□). J: Rectangular A: Square T: Round	 Alternate: A16-C A IP66 Momentary: A165-C M Alternate: A165-C A Insert one of the following symbols into the box (□). J: Rectangular (2-way guard) A: Square (2-way guard) T: Round (projected) 	A16-DSY	Specify one of the fol- lowing symbols in the box (□). 5: 5 VDC 12: 12 VAC/VDC 24: 24 VAC/VDC	
Green			A16-□DSG		
Blue			A16-□DA	•	

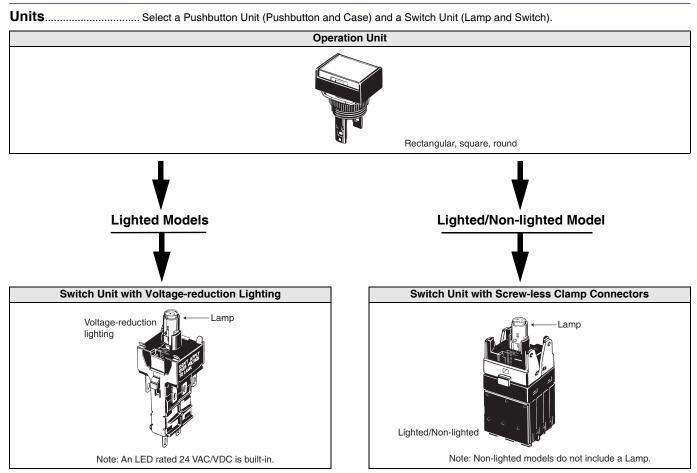
Ordering Individually Pushbuttons, Lamps, Cases, and Switches can be ordered separately. Combinations that are not available as



Ordering set combinations: Refer to pages 3 to 7.

Specifications: Refer to page 16.

■ Accessories, Replacement, and Tools: Refer to page 15.



Unit Sets Sets that combine an Operation Unit and a Case. Operation Unit

Appearance		C	lassification	Model
			Rectangular (2-way guard)	A16-J_M
		Momentary operation	Square (2-way guard)	A16-A□M
•	IP40	operation	Round (projected)	A16-T
	IP40	Alternate operation	Rectangular (2-way guard)	A16-J□A
			Square (2-way guard)	A16-A□A
			Round (projected)	A16-T□A
		Momentary operation	Rectangular (2-way guard)	A165-J M
			Square (2-way guard)	A165-A M
	Oil-resistant IP66	operation	Round (projected)	A165-T_M
			Rectangular (2-way guard)	A165-J_A
		Alternate operation	Square (2-way guard)	A165-A A
			Round (projected)	A165-T_A

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

Symbol	Color	Remarks	
R	Red		
Y	Yellow		
PY	Pure yellow	LED indicator, incandescent	
А	Blue	lamp, or non lighted	
W	White*		
GY	Green	LED only	
G	Green	Incandescent lamp or non-lighted	
В	Black	Non-lighted only	

* Use this pushbutton color if the illumination color of the LED is white or pure white.

Unit Sets Sets that combine a Switch and a Lamp.

Switch Units with Incandescent Lamps

Appearance	arance Classification			
	Standard loads and	Solder terminals	SPDT	A16L-□-1
Burn Production	microloads	Solder terminals	DPDT	A16L-□-2

Switch Units with LED Lamps

Appearance		Classification				
0		Solder terminals	SPDT	A16L-∆-□-1		
Ling of	Standard loads and microloads	Solder terminals	DPDT	A16L-∆-□-2		
		PCB terminals	SPDT	A16L-∆-□-1P		
		FOB terminais	DPDT	A16L-∆-□-2P		

Switch Units with Voltage-reduction Lighting (Soldered Terminals)

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

Note: An LED rated 24 VAC/VDC is built-in.

Switch Units with Screw-less Clamp Connectors

Appearance		Classification				Model
			Non-lighted			A16-2S
r Rinn			Lighted	No voltage-reduction lighting		A16L-∆-□-2S
	Standard loads and microloads	DPDT		Voltage-reduc- tion lighting	100/110 VAC/VDC	A16L-∆-T1-2S
				0 0	200/220 VAC/VDC	A16L-∆-T2-2S

Note: The 100-V models and 200-V models an LED rated 24 VAC/VDC is built-in.

Insert symbols in Δ and \Box .

Δ						
Sy	mbol	Color		Symbol	Туре	Operating voltage
	R	Red		5		5 VAC/VDC
	Y	Yellow		12	Incandescent	12 VAC/VDC
	G	Green		24	-	24 VAC/VDC
	W	White		5D		5 VDC
	А	Blue	Je 12D	12D	LED	12 VAC/VDC
				24D		24 VAC/VDC

Note: If the Pushbutton is pure yellow (PY), use white (W) for the Switch Unit.

Ordering Individually Pushbuttons, Lamps, Cases, 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.

Pushbuttons LED

Degree of protection		IP40		Oil-resistant IP66		
	Rectangular	Square	Round	Rectangular	Square	Round
Color			Ő			Ő
Red	A16L-JR	A16L-AR	A16L-TR	A165L-JR	A165L-AR	A165L-TR
Yellow	A16L-JY	A16L-AY	A16L-TY	A165L-JY	A165L-AY	A165L-TY
Pure yellow	A16L-JPY	A16L-APY	A16L-TPY	A165L-JPY	A165L-APY	A165L-TPY
Green	A16L-JGY	A16L-AGY	A16L-TGY	A165L-JGY	A165L-AGY	A165L-TGY
White*	A16L-JW	A16L-AW	A16L-TW	A165L-JW	A165L-AW	A165L-TW
Blue	A16L-JA	A16L-AA	A16L-TA	A165L-JA	A165L-AA	A165L-TA

* Use this pushbutton color if the illumination color of the LED is white or pure white.

Incandescent Lamps (With the exception of green, the Units are the same as for LEDs.)

Degree of protection		IP40			Oil-resistant IP66		
	Rectangular	Square	Round	Rectangular	Square	Round	
Color			O			\bigcirc	
Red	A16L-JR	A16L-AR	A16L-TR	A165L-JR	A165L-AR	A165L-TR	
Yellow	A16L-JY	A16L-AY	A16L-TY	A165L-JY	A165L-AY	A165L-TY	
Pure yellow	A16L-JPY	A16L-APY	A16L-TPY	A165L-JPY	A165L-APY	A165L-TPY	
Green	A16L-JG	A16L-AG	A16L-TG	A165L-JG	A165L-AG	A165L-TG	
White	A16L-JW	A16L-AW	A16L-TW	A165L-JW	A165L-AW	A165L-TW	
Blue	A16L-JA	A16L-AA	A16L-TA	A165L-JA	A165L-AA	A165L-TA	

Non-lighted (Same as Units for incandescent lamps.)

Degree of protection		IP40			Oil-resistant IP66		
	Rectangular	Square	Round	Rectangular	Square	Round	
Color			\bigcirc			\bigcirc	
Red	A16L-JR	A16L-AR	A16L-TR	A165L-JR	A165L-AR	A165L-TR	
Yellow	A16L-JY	A16L-AY	A16L-TY	A165L-JY	A165L-AY	A165L-TY	
Pure yellow	A16L-JPY	A16L-APY	A16L-TPY	A165L-JPY	A165L-APY	A165L-TPY	
Green	A16L-JG	A16L-AG	A16L-TG	A165L-JG	A165L-AG	A165L-TG	
White	A16L-JW	A16L-AW	A16L-TW	A165L-JW	A165L-AW	A165L-TW	
Blue	A16L-JA	A16L-AA	A16L-TA	A165L-JA	A165L-AA	A165L-TA	
Black	A16L-JB	A16L-AB	A16L-TB	A165L-JB	A165L-AB	A165L-TB	

Ordering set combinations: Refer to pages 3 to 7.

■ Specifications: Refer to page 16.

■ Accessories, Replacement, and Tools: Refer to page 15.

Ordering Individually Pushbuttons, Lamps, Cases, 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.

Lamps LED

Operating voltage	High brightness		
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
White *	A16-5DSW	A16-12DSW	A16-24DSW
Blue	A16-5DA	A16-12DA	A16-24DA
Pure white	A16-5DPW	A16-12DPW	A16-24DPW

Note: 1. If an LED lamp with normal brightness is needed, select a Lamp used in the A3C. 2. For voltage-reduction lighting use the A16-24D . Only 24 VAC/VDC LED lamps can be used.

 * Use the white LED together with white or pure yellow Pushbuttons.

Incandescent Lamp

Appearance	Operating voltage	Model
1-	5 VAC/VDC	A16-5
P	12 VAC/VDC	A16-12
	24 VAC/VDC	A16-24

Cases

Appearance		Classification				
			Rectangular (2-way guard)	A16-CJM		
		Momentary operation	Square (2-way guard)	A16-CAM		
	IP40		Round (projected)	A16-CTM		
	1240	Alternate operation	Rectangular (2-way guard)	A16-CJA		
			Square (2-way guard)	A16-CAA		
			Round (projected)	A16-CTA		
		Momentary operation	Rectangular (2-way guard)	A165-CJM		
			Square (2-way guard)	A165-CAM		
	Oil-resistant IP66		Round (projected)	A165-CTM		
	Oil-resistant 1P66		Rectangular (2-way guard)	A165-CJA		
		Alternate operation	Square (2-way guard)	A165-CAA		
			Round (projected)	A165-CTA		

Ordering set combinations: Refer to pages 3 to 7.

■ Specifications: Refer to page 16.

■ Accessories, Replacement, and Tools: Refer to page 15.

Switches

Appearance	CI	Classification				
Solder terminal			SPDT	A16-1		
			DPDT	A16-2		
CB terminal			SPDT	A16-1P		
	Lighted/non-lighted (common use)	Standard load/microload (common use)	DPDT	A16-2P		
crew-less Clamp						
			DPDT	A16-2S		

Switches with Reduced-voltage Lighting

Appearance	Cla	ssification		Model
Solder terminal	100.1/		SPDT	A16-T1-1
	100 V	Standard load/microload	DPDT	A16-T1-2
Screw-less Clamp		(common use)		
	100 V		DPDT	A16-T1-2S
	200 V			A16-T2-2S

Note: For a Switch with Reduced-voltage Lighting, use the A16-24D.

Accessories, Replacements, and Tools

Accessories

Name	Appearance	Classification	Model	Remarks		
Switch Guards		For rectangular models		For rectangular models		 Cannot be used with the Dust Cover.
Switch Guards		For square and round models	A16ZA-5050			
		For rectangular models	A16ZJ-5060			
Dust Covers		For square models	A16ZA-5060	Cannot be used with the Switch Guard. Can be operated with the Dust Cover attached.		
		For round models	A16ZT-5060			
		For rectangular models	A16ZJ-3003	Used for covering the panel cutouts for future panel		
Panel Plugs		For square models	A16ZA-3003	expansion.		
	K L	For round models	A16ZT-3003	Color: Black		

Replacements

Name	Appearance		Classificati	on	Model	Remarks
		Rectangu- lar	Oil-resistant IP66	Milky	A16ZJ-5204	• A Legend Plate is provided as a standard feature with the Opera-
Legend Plates		Square	Oil-resistant IP66	Milky	A16ZA-5204	tion Unit. However, if the Opera- tion Unit is black (non-lighted
		Round	Oil-resistant IP66	Milky	A16ZT-5204	models only), a Legend Plate is not provided.
				White	A16Z5001W	
	Rectangular			Red	A16Z5001R	Insert one of the following letters
		LED lamp/incandescent - lamp/nonlighted -		Yellow	A16Z -5001Y	into the box (□).
Color Caps (for				Pure yellow	A16Z -5001PY	J: Rectangular A: Square
IP40)				Blue	A16Z5001A	T: Round
		LED lamp		Green	A16Z5001GY	• The Color Cap is usually supplied.
	Square	Incandescent lamp/non-lighted		Green	A16Z5001G	Replace the Cap if the color is to
		Non-lighted		Black	A16Z5011B	 be changed. When using an LED indicator, be
	KA			White	A16Z5101W	sure to use a Color Cap that
				Red	A16Z5101R	matches the luminescent color of
	Round	lamp/nonlig	incandescent	Yellow	A16Z5101Y	the LED.
Color Caps (for oil-resistant IP66)	riouna	lamp/normg	gineu	Pure yellow	A16Z5101PY	The materials used for the IP40
	\bigcap			Blue	A16Z5101A	 and oil-resistant IP66 are different so be sure to use a Color Cap that
		LED lamp		Green	A16Z5101GY	matches the specifications of the
		Incandescent I	amp/non-lighted	Green	A16Z5101G	Switch.
		Non-lighted	b b b b b b b b b b b b b b b b b b b	Black	A16Z5111B	

Tools

				Α	pplicable typ	es		
Name	Appearance	Model	Pushbut- ton Switch	Knob-type Selector Switch	Key-type Selector Switch	Emergen- cy Stop Switch	Indicator	Remarks
Operation Unit Extractor		A3PJ-5080	•	_	_	_	•	Convenient for ex- tracting Pushbutton Switches
Screw Fitting	Î	A16Z-3004	•	•	•	•	•	Convenient for ganged installation.
Socket Unit Lamp Extractor		A16Z-5080	•	•	•	•	•	Convenient for ex- tracting the Switch and Lamps.

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.

- 1. Load: Resistive load
- 2. Mounting conditions: No vibration and no shock
- 3. Temperature: 20 $\pm 2^{\circ}C$
- 4. Operating frequency: 20 operations/min

Contact Form

Name	Contact
DPDT	COMNC
BrBr	NO

Characteristics Socket Unit

ltem	Tuma	Pushbutton Switch
Item	Туре	
Allowable operating	Mechanical	Momentary operation: 120 operations/minute max. Alternate operation: 60 operations/minute max. *1
frequency	Electrical	20 operations/minute max. *1
Insulation r	esistance	100 MΩ min. (at 500V DC)
Contact res	istance	100 m Ω max. (initial value)
	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 minute
Dielectric strength	Between terminals of different polarity	2,000 VAC, 50/60 Hz for 1 minute
	Between each ter- minal and ground	2,000 VAC, 50/60 Hz for 1 minute
	Between lamp ter- minals	1,000 VAC, 50/60 Hz for 1 minute *2
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)
Shock	Destruction	500 m/s ² max.
resistance	Malfunction	150 m/s ² max. (malfunction within 1 ms)
Durability	Mechanical	Momentary operation: 2,000,000 operations min. Alternate operation: 200,000 operations min. *1
	Electrical	100,000 operations min. *1
Electric sho	ock protection class	Class II
PTI (trackin	g characteristic)	175
Degree of c	ontamination	3 (IEC947-5-1)
Weight		Approx. 10 g (in the case of a lighted DPDT switch with solder terminals)
Degree of p	rotection	IP40: A16, Oil-resistant IP66: A165 *3
Ambient op	erating temperature	-10°C to 55°C (with no icing or condensation)
Ambient op	erating humidity	35% to 85%RH
Ambient sto	orage temperature	-25°C to 65°C (with no icing or condensation)

*1. Set and reset constitute one operation.
*2. With LED and incandescent lamp not mounted.
*3. Degree of protection from the front of the panel.

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

Super-bright LED

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

Incandescent Lamp

Rated voltage	Rated current	Operating voltage
6 VAC/VDC	60 mA	5 VAC/VDC
14 VAC/VDC	40 mA	12 VAC/VDC
28 VAC/VDC	24 mA	24 VAC/VDC

Voltage-reduction Unit (LED Lamp)

Rated voltage	Operating voltage	Applicable lamp	
110 VAC/VDC	100/110 VAC/VDC (90 to 121 V)	A16-24DS LED Lamp	
220 VAC/VDC	200/220 VAC/VDC (180 to 242 V)		

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	0.3 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 ±1mm			
Compliant standards		JIS C 2811 Terminal Blocks for Industrial Use			

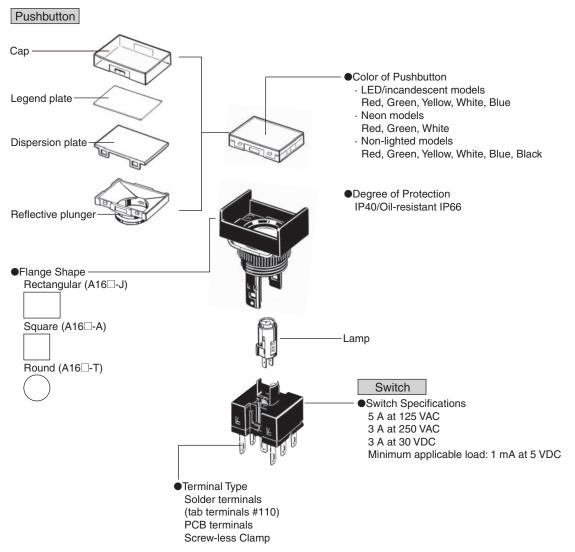
Operating Characteristics

Туре	Pushbutton Switch		
Characteristics	IP40	Oil-resistant IP66	
Operating force (OF) max.	4.41 N	4.91 N	
Releasing force (RF) min.	0.2	9 N	
Total travel (TT)	Approx	. 3 mm	
Pretravel (PT) max.	2.5	mm	
Lock travel alternate (LTA) min. *	0.5 mm		
* Alternate operation models only.			

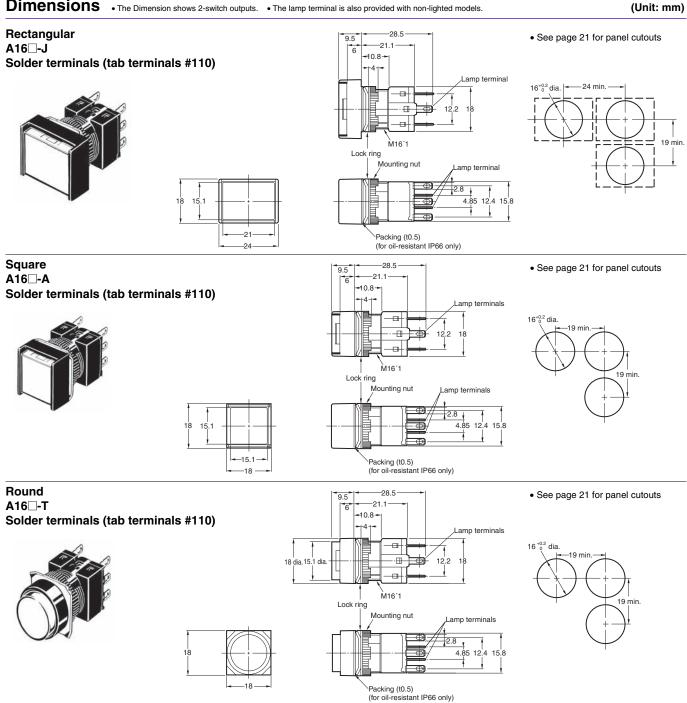
Alternate operation models only.

Nomenclature

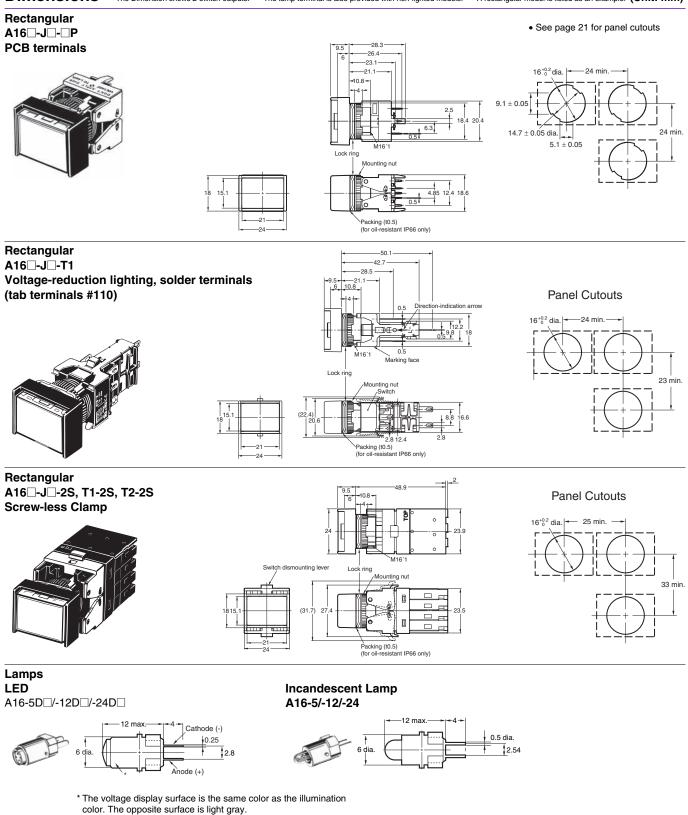
Model Structure



Dimensions • The Dimension shows 2-switch outputs. • The lamp terminal is also provided with non-lighted models.



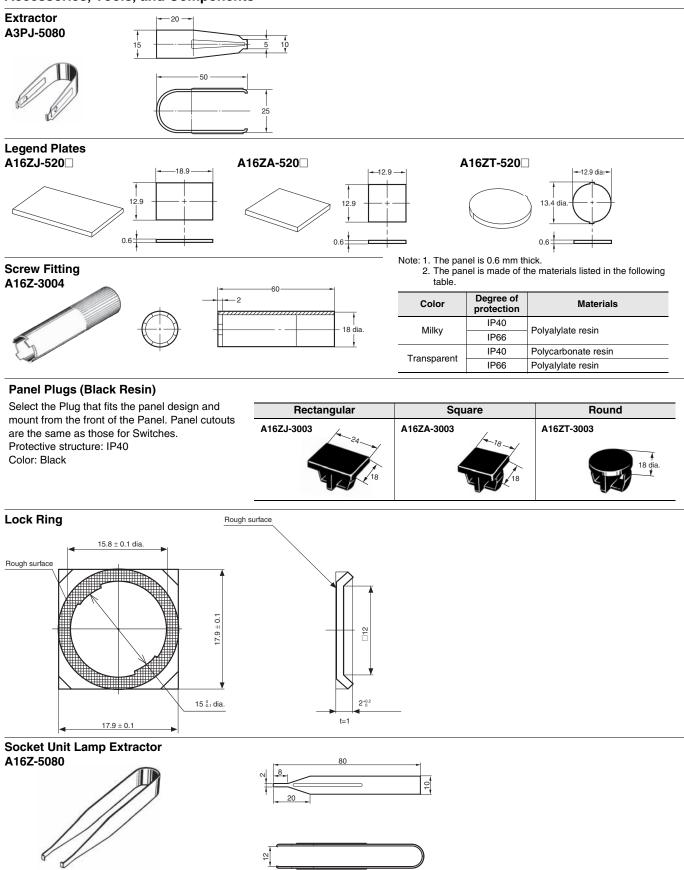
Dimensions • The Dimension shows 2-switch outputs. • The lamp terminal is also provided with non-lighted models. • A rectangular model is listed as an example. (Unit: mm)



(For pure white, the entire surface is light gray.)

Dimensions

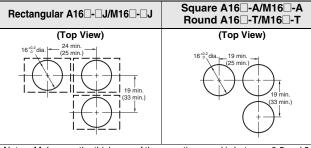
Accessories, Tools, and Components



Dimensions

Panel Cutouts

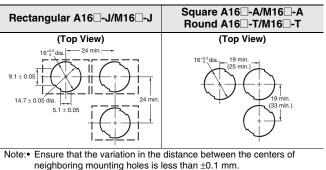
Solder Terminals and Screw-less Clamp Connectors



Note:• Make sure the thickness of the mounting panel is between 0.5 and 3.2 mm. If, however, a Switch Guard or Dust Cover is used, the thickness of the mounting panel must be between 0.5 and 2 mm.

- If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after coating.
- meets the specified dimensions after coating. • Figures in parentheses are for Screw-less Clamp Connectors.

PCB Terminals

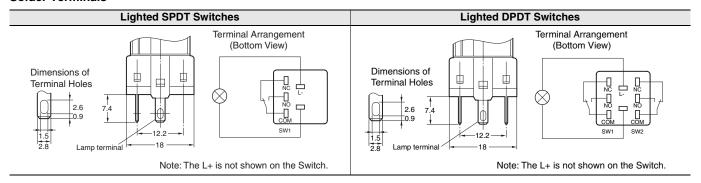


 Make sure the thickness of the mounting panel is between 0.5 and 3.2 mm. If, however, a Switch Guard or Dust Cover is used, the thickness of the mounting panel mount has between 0.5 and 0 mm.

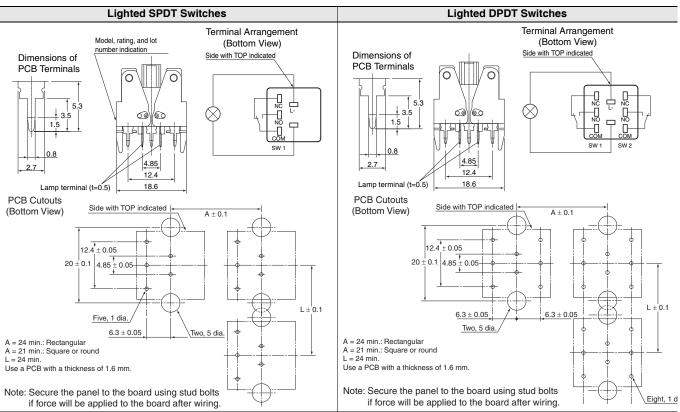
of the mounting panel must be between 0.5 and 2 mm.
If the panel is to be finished with coating, etc., make sure that the panel meets the specified dimensions after coating.

Terminal Arrangement

Models without Reduced-voltage Lighting (Non-lighted Pushbutton Switches are also provided with lamp terminals.) Solder Terminals



PCB Terminals (Lamp terminals are also present on non-lighted models.)

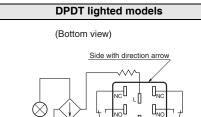


Terminal Arrangement

Voltage-reduction Lighting (Lamp terminals are also present on non-lighted models.)

Solder Terminals

Dimensions



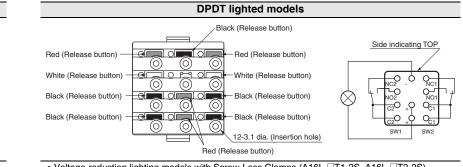
 \mathbf{L}_{c}

SW:

-0

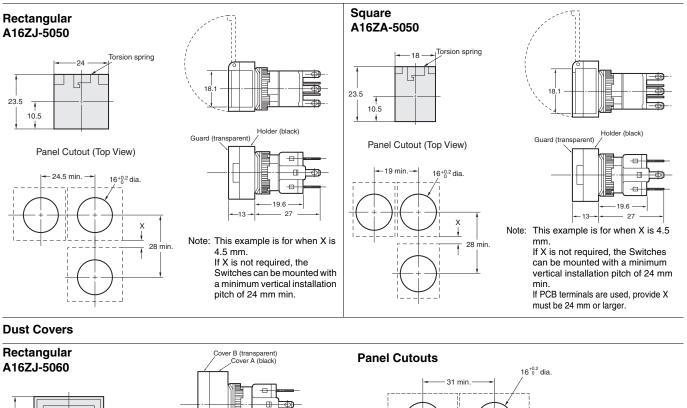
• The voltage-reduction circuit is built in.

Screw-Less Clamps

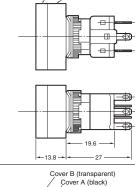


 Voltage-reduction lighting models with Screw-Less Clamps (A16L-□T1-2S, A16L-□T2-2S) incorporate voltage-reduction circuits.

Accessory Dimensions Mounted Dimensions with Switch Guard Installed

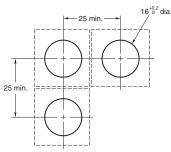




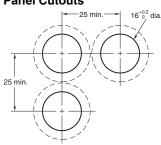


25 min.

Panel Cutouts



Panel Cutouts



Square

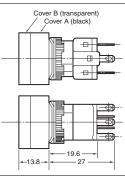
24

A16ZA-5060

Round A16ZT-5060



24



- 19.6

-27

+13.8-

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

MARNING 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
- 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.

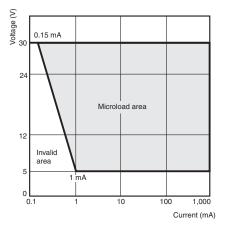
Operating Environment

- This Switch is intended for indoor use only. Using the Switch outdoors will cause the Switch to fail. If IP40 models are used in locations subject to dust, metallic particles, or oil, be careful that none of these penetrates the Switch.
- The IP66 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.
- Do not use the Switch submersed in oil or water, or in locations continuously subject to splashes of oil or water. Doing so may result in oil of water entering the Switch.

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, $\lambda 60 = 0.5 \times 10^{-6}$ /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. LEDs with a rated voltage of 12 or 24 V have a built-in diode bridge and no polarity. LEDs with a rated voltage of 5 V have polarity.

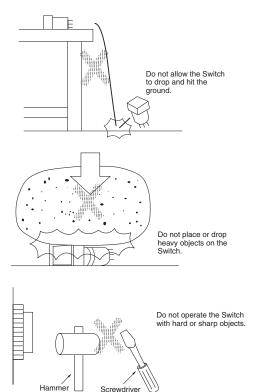
Rated voltage	Internal limiting resistor
5 VDC	Red, yellow, white: 300 Ω Green, blue, pure white: 160 Ω
12 VAC/VDC	Red, yellow, white: 1 k Ω Green, blue, pure white: 910 Ω
24 VAC/VDC	2.4 kΩ

Others

- The oil-resistant IP66 uses NBR rubber and is resistant to general cutting oil and cooling oil. Some particular oils cannot be used with the oil-resistant IP66, however, so contact your OMRON representative for details.
- The durability of the Switch depends in the switching conditions. Always test the Switch under actual application conditions to confirm applicability and use the Switch only for the number of switching operations that will not affect performance. Continuing to use the Switch with degraded performance will eventually result insulation faults between circuits, burning of the Switch, or other failures.
- 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.

• Rubber is used inside IP66 models. Do not allow the rubber to become scratched or foreign matter to become attached to the rubber.

Scratches and foreign matter will degrade the waterproofing, and the Switch may fail operate correctly.



Screw-less Clamp Wiring Procedure

Connecting Wires

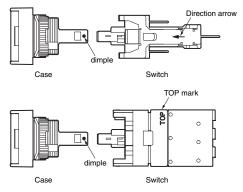
- 1. Strip the wires for 10 mm (allowable range: 10 ± 1 mm).
- 2. If braided wire is used, twist the wire to straighten it out.
- 3. Insert the wire into the insertion hole while pressing the release button at the side of the hole. (Using a precision screwdriver is recommended.)
- 4. Let go of the release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

Removing Wires

 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.

Precautions

- 1. The mounting panel thickness must be 0.5 to 3.2 mm.
- 2. The mounting ring must be tightened to a torque 0.29 to 0.49 N·m.
- 3. The procedure for making the mounting hole for the screw-less clamp connector is described on page 21. A mounting dimension of at least 33 mm is required, however, because the Switch is removed with the screw-less clamp connector mounted to the panel. If Switches are mounted side-by-side separated by less than the specified distance, it may not be possible to remove the Switch.
- Be sure to mount the Case to the Switch with the correct orientation. Mount with the dimple on the Case facing in the same direction as the side of the Switch with the direction arrow or the word TOP.



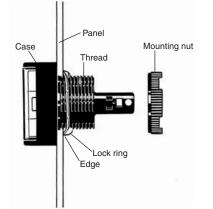
- Bend the end of the wire if braided wire is used with the screwless clamp connector.
- 6. When wiring, insert the wire until it comes into contact with something. After wiring is completed, pull on the wires to confirm that they are connected securely.
- 7. After wiring, ensure that continuous pressure is not applied to the terminals.
- 8. Refer to internal connection diagrams and confirm the terminal numbers before wiring.

Panel Mounting

After mounting the Pushbutton Unit to the panel, snap in the Switch from the back of the panel.

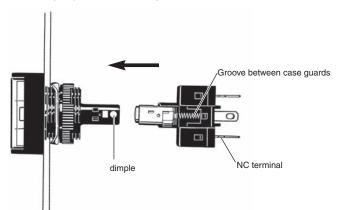
Mounting to the Panel

- Insert the Pushbutton Unit into the front of the panel, and fix the lock ring and mounting nut from the terminal side.
- Make sure that the lock ring is aligned with the thread of the Case and the edge of the lock ring is touching the panel.
- Tighten the mounting nuts to a torque of 0.29 to 0.49 N·m.



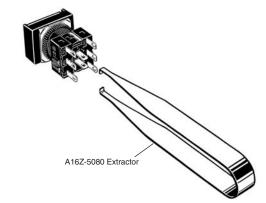
Mounting the Switch Unit

- Snap on the Switch Unit to the Pushbutton Unit.
- Make sure that the Switch Unit has the correct orientation when snapping it onto the Case. Align the dimple on the Case with the groove between the case guards on the NC terminal side of the Switch Unit in the way shown below, and push the Switch Unit into the Case until it clicks into place. Confirm that the Switch Unit is securely in place before using.



Removing the Switch Unit

• Grip the part between the Switch holder of the Case and the Switch Unit using the A16Z-5080 Extractor, and pull to remove the Switch Unit.



Note: Refer to page 21 for PCB terminals.

Engraving

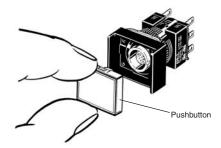
Engraving the Legend Plate

- The characters must not be engraved deeper than 0.4 mm.
- Apply an alcohol-based paint coating, such as melamine, phthalate, or acrylic resin paint coating.

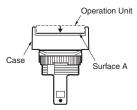
Mounting and Replacing the Pushbutton

Removing and Mounting the Pushbutton

 Remove the Pushbutton as shown in the following diagram. If the Pushbutton cannot be removed by hand, use the A3PJ-5080 Extractor.

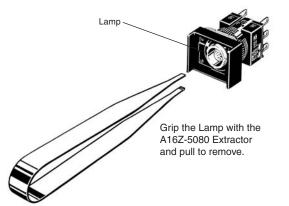


(2) When mounting the Operation Unit to the Case, press the entire surface of the Operation Unit to surface A of the Case as shown in the following diagram.



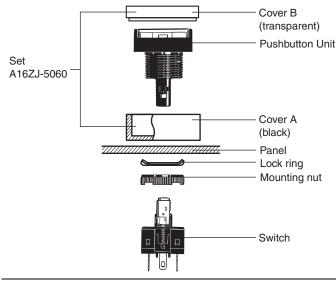
Removing the Lamp

(1) Removing from the Pushbutton End



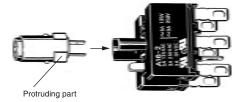
(2) Removing from the Switch End The Lamp can be removed by hand once the Switch is removed using the A16Z-5080 Extractor.

Mounting the A16Z Dust Cover



Installing the Lamp

• When mounting the Lamp, make sure it is facing the direction shown in the following diagram. Insert the Lamp while matching the protruding part of the Lamp and the small guides on the outer surface of the Case.

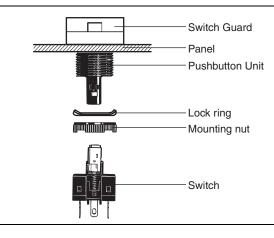


• The Lamp can be mounted from the Pushbutton end by using the A16Z-5080 Extractor.

The lamp can be mounted by following the opposite procedure for removing the Lamp.

- 1. Separate the Dust Cover into 2 parts: cover A and cover B.
- 2. Insert the Case (Pushbutton Unit) into cover A.
- 3. Mount these parts together onto the panel.
- 4. From the back of the panel, mount the lock ring and secure with the mounting nut.
- Insert cover B into cover A. Ensure that the entire perimeter of cover B is securely attached to cover A by pressing in different directions.
 Mount the Switch to the Case.
- Note: Recommended panel thickness: 0.5 to 2 mm.

Mounting the A16Z Switch Guard



- 1. Insert the Case (Pushbutton Unit) into the Switch Guard.
- 2. Mount these parts together onto the panel.
- 3. From the back of the panel, mount the lock ring and secure with the mounting nut.

4. Mount the Switch to the Case.

Note: Recommended panel thickness: 0.5 to 2 mm.

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