Indicator (Cylindrical 16-dia.)

Cylindrical 16-dia. Indicator

Same basic design as the A16 Pushbutton Switch.

LR° *LR*



List of Models

	Appearance	Model
	Rectangular	M16-J
Solder terminals	Square	M16-A
	Round	M16-T
Voltage -reduction lighting		M16-□
Screw-less Clamp		M16-□

Model Number Structure

Model Number Legend The model numbers used to order sets of Units are illustrated below. One set comprises the Display, Case,

Lamp, and Socket.

For information on combinations, refer to Ordering Information on the following pages.



(1) Degree of Protection (2) Shape of Display (3) Color of Display (4) Light Source

Symbol	Protection	Symbol	Shape
No	IP40	J	Rectangular
symbol		А	Square
5	IP65 oil-resistant	Т	Round

.,	(0) 00101 01 210p123			
	Symbol	Color		
ır	R	Red		
	G	Green		
	Y	Yellow		
	PY	Pure yellow		
	W	White		
	PW	Pure white		
	А	Blue		

Symbol	Туре	Operating voltage	Rated voltage
5	Incondoccent	5 VAC/VDC	6 VAC/VDC
12	Incandescent lamp	12 VAC/VDC	14 VAC/VDC
24	lamp	24 VAC/VDC	28 VAC/VDC
5D		5 ±5% VDC	5 VDC
12D	LED	12 ±5% VAC/VDC	12 VAC/VDC
24D		24 ±5% VAC/VDC	24 VAC/VDC

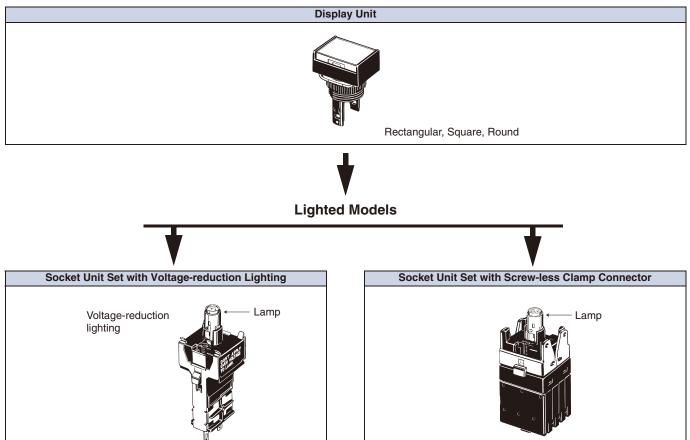
Voltage Reduction Unit (24-V Built-in LED)

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

• Solder terminals are available only with 100-V models.

Screw-less clamp connectors are used for 200-V models.





OMRON

Ordering Information

the Display, Case, Lamp, and Socket.

M16 -J (Rectangular) Models **Solder Terminal Models**

Appearance	Lighting	Degree of protection	IP40	IP65 oil-resistant	Display color symbol *
Square (M16-A)	LED without Voltage Reduction Unit	5 VDC	M16-J□-5D	M165-J□-5D	R: red Y: yellow G: green A: blue W: white PY: pure yellow PW : pure white
		12 VAC/VDC	M16-J□-12D	M165-J□-12D	
		24 VAC/VDC	M16-J□-24D	M165-J□-24D	
		5 VAC/VDC	M16-J□-5	M165-J□-5	R: red Y: yellow
	Incandescent lamp	12 VAC/VDC	M16-J□-12	M165-J□-12	G: green A: blue
	24 VAC/		M16-J□-24	M165-J□-24	W: white PY: pure yellow

* Enter the desired color symbol into the box in the model number.

M16⁻A (Square) Models **Solder Terminal Models**

Appearance	Degree of protection Lighting		IP40	IP65 oil-resistant	Display color symbol *
Square (M16-J)		5 VDC	M16-A□-5D	M165-A□-5D	R: red Y: yellow G: green A: blue W: white
	LED without Voltage Reduction Unit	12 VAC/VDC	M16-A□-12D	M165-A□-12D	
		24 VAC/VDC	M16-A□-24D	M165-A□-24D	PY: pure yellow PW : pure white
	Incandescent lamp	5 VAC/VDC	M16-A□-5	M165-A□-5	R: red Y: yellow G: green A: blue
		12 VAC/VDC	M16-A□-12	M165-A□-12	
		24 VAC/VDC	M16-A□-24	M165-A□-24	W: white PY: pure yellow

* Enter the desired color symbol into the box in the model number.

M16□-T (Round) Models

Solder Terminal Models

Appearance	Degree of protection Lighting		IP40	IP65 oil-resistant	Display color symbol *
Round (M16-T)		5 VDC	M16-T□-5D	M165-T□-5D	R: red Y: yellow G: green A: blue W: white
	LED without Voltage Reduction Unit	12 VAC/VDC	M16-T□-12D	M165-T□-12D	
		24 VAC/VDC	M16-T□-24D	M165-T□-24D	PY: pure yellow PW : pure white
	Incandescent lamp	5 VAC/VDC	M16-T□-5	M165-T□-5	R: red Y: yellow
		12 VAC/VDC	M16-T⊡-12	M165-T□-12	G: green A: blue
		24 VAC/VDC	M16-T□-24	M165-T□-24	W: white PY: pure yellow

Note: Neon lamps are not available with models that are ordered as a set. They must be ordered individually if required. * Enter the desired color symbol into the box in the model number.

Specifications

Approved Standards UL, cUL

Ratings

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)

Super-bright LED

Rated voltage	Rated current	Operating voltage	Built-in limiting resistance
5 VDC		5 VDC ±5%	Red, yellow, white : 300 Ω Green, blue, pure white : 160 Ω
12 VAC/VDC	8 mA	12 VAC/VDC ±5%	Red, yellow, white : 1 k Ω Green, blue, pure white : 910 Ω
24 VACVDC		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

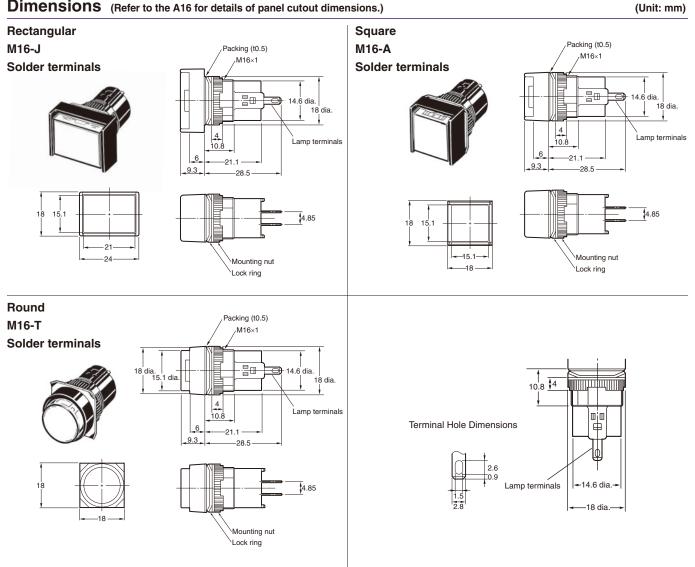
Characteristics

Screw-less Clamp

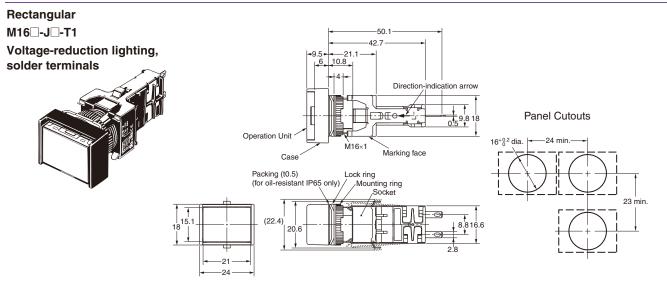
Item	Туре	Screw-less Clamp			
Recommende	d wire size	0.5 mm ² twisted wire or 0.8 mm-dia. solid wire			olid wire
Usable wires	Twisted wire	0.3 mm ²	0.5 mm ²	0.75 mm ²	1.25 mm ²
and tensile	Solid wire	0.5 mm dia.	0.8 mm dia.	1.0 mm dia.	
strength	Tensile strength	10 N	20 N	30 N	40 N
Length of exp	osed wire	10 ±1 mm			<u>.</u>
Compliant sta	ndards	JIS C 2811 Terminal Blocks for Industrial Use			trial Use

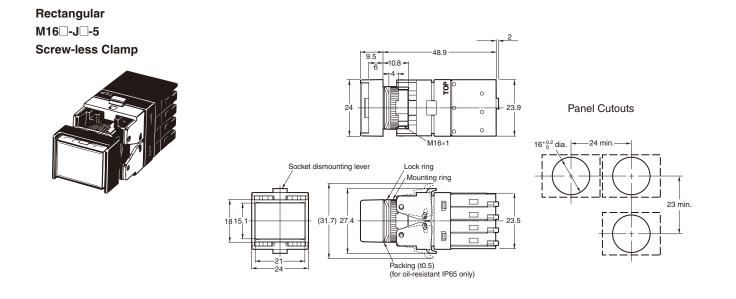
M16

Dimensions (Refer to the A16 for details of panel cutout dimensions.)



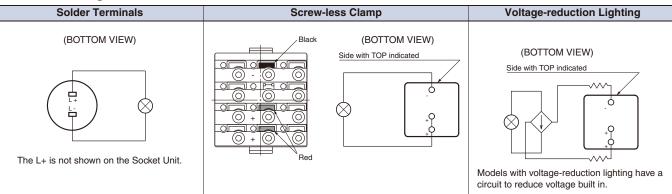
Dimensions





Dimensions

Terminal Arrangement



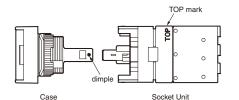
Accessories, Replacements, and Tools

The accessories, replacements, and tools are also used with the A16 Pushbutton Switch. Refer to the A16 datasheet.

Safety Precautions

Mounting

• When mounting the Case onto the Socket Unit, ensure that the orientation is correct. Perform mounting with the dimple on the Case and the TOP mark on the Socket Unit facing in the same direction.



Application

Screw-less Clamps

Mounting Procedure

- 1. Strip a length of 10 mm off the end of the wire (allowable range: 10 ± 1 mm).
- 2. Bunch wire strands together and straighten them.
- 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.

Wiring

- When using stranded wire, gather the ends of the strands together before wiring.
- 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.
- After wiring, ensure that continuous pressure is not applied to the terminals.
- Refer to internal connections diagrams and confirm the terminal numbers before performing wiring.

Removing Procedure

1. Remove wires by pulling them while pressing the release button.

Note: When reusing wires that have already been locked, cut off the end of the wire and strip the wire again before using.