CSM_A2A_DS_E_2_3

High-performance Pushbutton Switch with Built-in Subminiature Basic Switch

- Wide selection of pushbutton colors and types.
- Using a Basic Switch enables greater reliability.





Refer to Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions on page 2.

Ordering Information

Pushbutton color	Blue	Black	Green	Red	White	Yellow
Model	A2A-4A	A2A-4B	A2A-4G	A2A-4R	A2A-4W	A2A-4Y

Note: The face nut, lock washer, and operation unit are shipped separately from the body of the Switch. The A2A has solder terminals, SPDT contacts, and momentary operation.

Specifications

Characteristics

Rating		5 A, 125 V (resistive load) 3 A, 250 V (resistive load)	
Inrush current		NC: 20 A max. NO: 10 A max.	
Contact resistance		50 m $Ω$ max. (initial value)	
	Between terminals of same polarity	1,000 VAC, 50/60 Hz for 1 min	
Dielectric strength	Between current-carrying metal part and ground, and between each termi- nal and non-current-car- rying metal part	1,500 VAC, 50/60 Hz for 1 min	
Durability	Mechanical	200,000 operations min.	
	Electrical	200,000 operations min.	
Ambient operating temperature		-25 to 80°C (with no icing or condensation)	
Ambient operating humidity		45% to 85%RH	
Degree of protection		IP00	
Electric shock protection class		Class II	
PTI (proof tracking index)		175	
Pollution degree		3 (IEC 947-5-1)	

Note: The rated values are from testing conducted under the following conditions:

- 1) Ambient temperature: 20 ± 2°C
- 2) Ambient humidity: $65\% \pm 5\%$ RH
- 3) Operating frequency: 20 operations/minute

Operating Characteristics

Model Operating Characteristics	A2A
Operating force (OF), max.	1.47 N
Releasing force (RF), min.	0.10 N
Pretravel (PT), max.	0.8 mm
Total travel (TT), max.	1.4 mm

[•] A D2S-5 is used for the built-in switch.

Contact Form

Name	Contact form	
Double-throw contacts	COM——NO	

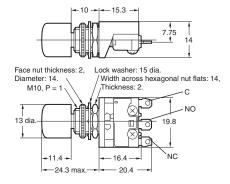
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Dimensions (Unit: mm)



Note: 1. The Operation Unit can be inserted and removed.

2. Unless specified, a tolerance of ± 0.8 mm applies for all dimensions.



Panel Cutouts



Note: Use a mounting panel thickness of 1 to 4 mm.

Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

Precautions for Correct Use

- Twist the conductors through the terminal holes before soldering.
- To perform soldering on solder terminals, use a soldering iron with a tip temperature of 350 to 400°C and complete soldering within 3 seconds. Do not exert any external force on the solder during soldering and for one minute after completing soldering. The Switch does not have a ground terminal.
- Do not perform wiring while power is being supplied to the Switch. Do not touch the terminals or other charged parts of the Switch while power is being supplied. Doing so may result in electric shock.
- After wiring the Switch, make sure that there is a suitable isolation distance.

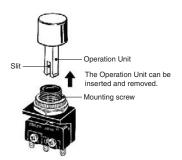
Mounting the Operation Unit

Panel Mounting

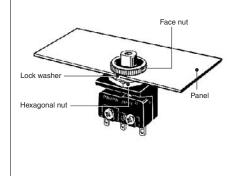
- The Operation Unit can be inserted and removed. • Mounting can be performed by inserting the slit of
- the Operation Unit into the mounting screw of the
- Mounting force: 39.2 N max.

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• Removing strength: 24.5 N min.



Tighten the hexagonal nut while securing the Switch by holding it with your fingers. Tighten the hexagonal nut with a torque of 0.49 to 0.98 N·m.



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