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Pushbutton Switches

A22NN-RNM-NGA-G100-NN

Image

Cylindrical (22/25 mm dia.), Round flat type, Green (Opacity), IP66;NEMA4X, NEMA13, Bezel material: Brushed metal (Round), Momentary, SPST-NO, Screw terminal (M3.5)

Type	Pushbutton Switch (22-dia.)
Shape	Cylindrical type (22/25 mm dia.)
Operating portion	Round flat type Green (Opacity)
Lighted method	Non-lighted
Bezel material	Brushed metal (Round)
Terminal	Screw terminal (M3.5)

Ratings

As of September 7, 2020

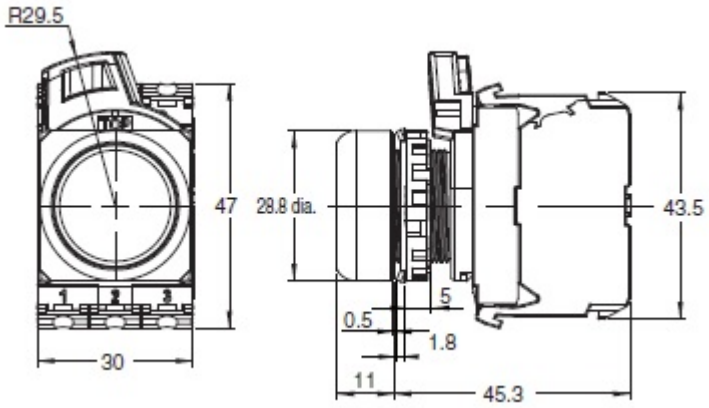
Type		Pushbutton Switch (22-dia.)
Shape		Cylindrical type (22/25 mm dia.)
Lighted/Non-lighted		Non-lighted
Operating portion	**Shape of operating portion**	Round flat type
	Color of operating portion	Green
	Transparency/Opacity	Opacity
Operating function		Momentary
Bezel material		Brushed metal (Round)
Load		For General load
Minimum applicable load		6 mA at 5 VDC
Contact blocks constitution		Unit position 1: NO
Contact rating	**Contact form**	SPST-NO
	Rated through current	10 A
	Ratings (AC)	Resistive load (AC-12): 10 A at 24 VAC/10 A at 120 VAC/6 A at 240 VAC/2 A at 380 VAC/2 A at 440 VAC Inductive load (AC-15): 10 A at 24 VAC/6 A at 120 VAC/3 A at 240 VAC/1.9 A at 380 VAC/1.6 A at 440 VAC
	Ratings (DC)	Resistive load (DC-12): 8 A at 24 VDC/2.2 A at 120 VDC/1.1 A at 240 VDC Inductive load (DC-13): 4 A at 24 VDC/1.1 A at 120 VDC/0.55 A at 240 VDC
	Ratings explanation	Conditions: Temperature 20±2 ℃, Ambient humidity 65±5% RH, Operating frequency 30 operations/min

Terminal specifications	Screw terminal (M3.5)
Permissible operating frequency	Electrical: Max. 30 operations / 1 minute Mechanical: Max. 60 operations / 1 minute
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	Between each terminaland ground: 2500 VAC 50/60 Hz 1 min Between each terminal of the same polarities: 2500 VAC 50/60 Hz 1 min (Initial value)
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude (malfunction within 1 ms)
Shock resistance	Malfunction: 1000 m/s^2 max. (malfunction within 1 ms)
Ambient temperature range	Operating: -25 to 70 ℃ (with no freezing or condensation) Storage: -40 to 80 ℃ (with no freezing or condensation)
Ambient humidity range	Operating: 35 to 85% RH
Degree of protection	Front panele: IP66, NEMA4X, NEMA13
Classification of protection against electric shock	Class II
PTI (Tracking characteristic)	175
Pollution degree	3 (EN60947-5-1)

As of September 7, 2020

Dimensions

As of September 7, 2020



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Mounting hole dimensions

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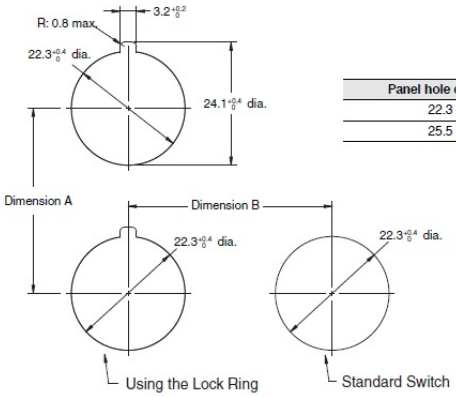
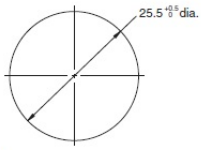
Panel Hole Dimensions for 22.3 Diameter



Panel hole dimension	Panel thickness
22.3 dia.	0.8 to 5 mm
25.5 dia.	0.8 to 6 mm

Panel Hole Dimensions for 25.5 Diameter



Dimension A

Wire type	Number of linked Contact Blocks	Number of wires per terminal	Minimum allowable pitch Dimension A (mm) or larger
Leads (stranded wire / solid wire)	1	1	50
Bare crimp terminals	1	1	50
Crimp terminals with insulating sheathes	1	1	60

Note: The minimum mounting pitch is based on three Contact Blocks in stage 1 with one wire attached to each terminal.
If the Mounting Collar lock levers all face the same direction at the minimum mounting pitch, be sure to note the order the mounting collars are attached to the Operation Unit.
If you attach two wires or link Units, determine the mounting pitch based on the dimensions diagrams and ease of operation and wiring.

Dimension B

Operation Unit shape	Dimension B
Mushroom	40 mm min.
Other than the above	30 mm min.

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