

# Pushbutton Switches

## Navigation Guide



Product Line	A16 - Lighted/Non-lighted	A22N - Lighted/Non-lighted	A30N - Lighted/Non-Lighted	A165E - Lighted/Non-lighted	A22E - Lighted/Non-lighted
<b>Selling Tips</b>	<ul style="list-style-type: none"> <li>• Miniature design of 28.5 mm, the smallest class in the industry</li> <li>• Detachable switch unit</li> <li>• Easy-to-wire terminal</li> </ul>	<ul style="list-style-type: none"> <li>• Plastic, brushed metal, and shiny metal bezel options</li> <li>• Connect up to 3 contact blocks in 1 stage for multistage expansion</li> </ul>	<ul style="list-style-type: none"> <li>• Easy-to-operate lever for secure locking</li> <li>• Connect up to 3 contact blocks in 1 stage for multistage expansion</li> <li>• Brushed Metal bezels</li> </ul>	<ul style="list-style-type: none"> <li>• Modular construction, easy installation</li> <li>• Quick and easy assembly, snap-in switch</li> </ul>	<ul style="list-style-type: none"> <li>• Direct mechanism opens the circuit when the contact fuses</li> <li>• Safety lock mechanism prevents operating errors</li> </ul>
<b>Typical Applications</b>	Control Panels, Semi-conductor Machines, Packaging Equipment, Industrial Ovens, Vending Machines, Assembly Machines, Plastic Injection Molding Machines, Medical Equipment				
<b>Switching Current (Resistive)</b>	5A 125VAC, 3A 250VAC 3A 30VDC	10A 24VAC, 10A 120VAC, 6A 240 VAC, 8A 24VDC	10A 24VAC, 10A 120VAC, 6A 240 VAC, 8A 24VDC	5A 125VAC, 3A 250VAC 3A 30VDC	10A 110VAC, 10A 24VDC
<b>Contact Form</b>	SPDT, DPDT	3PST-NO, 3PST-NC, 4PST-NO, 4PST-NC, 6PST-NO, 6PST-NC	3PST-NO, 3PST-NC, 4PST-NO, 4PST-NC, 6PST-NO, 6PST-NC	SPST-NC, DPST-NC 3PST-NC	SPST-NC, DPDT, DPST-NC
<b>Mechanical Service Life</b>	Momentary: 2 million cycles minimum Alternate: 200K cycles minimum	Momentary: 5 million cycles minimum Alternate, Selector and Key Selector: 500K cycles minimum	Momentary: 5 million cycles minimum Alternate, Selector and Key Selector: 500K cycles minimum	100K cycles minimum	300K cycles minimum
<b>Electrical Service Life</b>	100K cycles minimum	500K cycles minimum	500K cycles minimum	100K cycles minimum	300K cycles minimum
<b>Pushbutton Colors</b>	Lighted:  Non-lighted:  Pure White:	Lighted:  Non-lighted:	Lighted:  Non-lighted:		
<b>Pushbutton Type / Panel Cutout</b>	Square, Rectangular, Round / 16 mm dia.	Round / 25.3 mm without lock ring	Round / 30 mm dia.	Mushroom / 16 mm dia.	Mushroom / 22.3 mm dia.
<b>Available Types</b>	A16 Pushbutton, Non-lighted A16L Pushbutton, Lighted A165 Pushbutton, Non-lighted, IP65 A165L Pushbutton, Lighted, IP65 A165K Keyed Selector Switch A165S Selector Switch, Non-lighted A165W Selector Switch, Lighted M16 Pilot Light M165 Pilot Light, IP65	A22N Pushbutton, Non-lighted A22NL Pushbutton, Lighted A22NK Keyed Selector Switch A22NS Selector Switch, Non-lighted A22NW Selector Switch, Lighted M22N Pilot Light	A30N Pushbutton, Selector, and Keyed Selector	A165E Emergency Stop, Non-lighted A165EL Emergency Stop, Lighted	A22E Emergency Stop, Non-lighted A22EL Emergency Stop, Lighted

# Pushbutton Switches

## Navigation Guide



Product Line	A3A - Lighted/Non-lighted	A3U - Lighted / Non-lighted	A3P - Lighted	A3S - Lighted	M2BJ-B Buzzer
<b>Selling Tips</b>	<ul style="list-style-type: none"> <li>• Compact, high-capacity pushbutton switch</li> <li>• Capable of switching 6A at 125VAC</li> <li>• Requires only 14.5 mm behind the panel</li> </ul>	<ul style="list-style-type: none"> <li>• Flat design - Only 2 mm height</li> <li>• Compact size - reduce panel size</li> <li>• Connector terminals save wiring time</li> <li>• High Contact Reliability</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent operating sensitivity</li> <li>• Excellent lighting with even surface brightness</li> <li>• Chameleon color type (Green, Red and Orange) is available</li> </ul>	<ul style="list-style-type: none"> <li>• Easy panel mounting from the front</li> <li>• Simple lamp replacement without tools</li> </ul>	<ul style="list-style-type: none"> <li>• Lineup includes standard-volume models (80 dB, constant) and high-volume models (70 to 95 dB, variable)</li> <li>• Intermittent or continuous sound can be selected</li> </ul>
<b>Typical Applications</b>	Control Panels, Semi-conductor Machines, Packaging Equipment, Industrial Ovens, Vending Machines, Assembly Machines, Plastic Injection Molding Machines, Medical Equipment				
<b>Electrical Rating (Resistive)</b>	6A 125VAC, 2A 250VAC 4A 30VDC	0.1A 30 VDC, Minimum applicable load : 1 mA 5 VDC	5A 125VAC, 3A 250VAC 4A 30VDC, 0.4A 125VDC, 0.2A 250VDC	3A 125VAC, 2A 250VAC 3A 14VDC, 2A 30VDC 0.4A 125VDC, 0.2A 250VDC	-
<b>Contact Form</b>	SPST-NO, SPDT	SPDT, DPDT	SPDT, DPDT	SPDT, DPDT	-
<b>Mechanical Service Life</b>	Momentary: 1 million cycles minimum Alternate: 50K cycles minimum	1 million operations minimum	Momentary: 1 million cycles minimum Alternate: 200K cycles min.	Momentary: 1 million cycles minimum Alternate: 100K cycles min.	-
<b>Electrical Service Life</b>	50K cycles minimum	200K operations minimum	100K cycles minimum	100K cycles minimum	1,000 hours minimum
<b>Pushbutton Colors</b>	Lighted: Non-lighted:	Lighted: Non-lighted:	 And 3-color type:		 High volume models have built-in LED indicator
<b>Pushbutton Type / Panel Cutout</b>	Square / 11.5 X 11.5 mm Round / 11.5 mm dia.	Round / 25.2 mm dia.	Square / 23.5 X 22.5 mm Rectangular / 23.5 X 30.5 mm Round / 29 mm dia.	Square / 16.2 X 16.2 mm Rectangular / 16.2 X 22.4 mm	No pushbutton 16 mm dia.
<b>Available Types</b>	A3A□-00 Non-lighted A3A□-00E Lighted	A3UL Pushbutton, Lighted, SPDT A3UL Pushbutton, Lighted, DPDT A3U Pushbutton, Non-lighted, SPDT A3U Pushbutton, Non-lighted, DPDT A3US Selector, Non-lighted, SPDT	A3P□-5011 Pushbutton, 1 Screen A3P□-5012 Horizontal 2-split Screen A3PJ-5013 Rect., Vertical 2-split Screen A3PJ-5016 Rectangular, 4-split Screen A3P□-5800 Pushbutton, Chameleon	A3SA-90□1 Square, 1 Screen  A3SJ-90□1 Rectangular, 1 Screen  A3SJ-90□3 Rect., Vertical 2-split Screen	M2BJ-B Buzzer  M2BJ-BH Buzzer, High Volume