

A6 Series – Miniature Switches and Pilot Devices: 16mm

Key features:

- 16mm (5/8") mounting hole
- LED illumination
- Compact design saves space
- Momentary, Maintained, Selectors, and E-Stops
- Gold-clad Silver contacts for reliable low level switching
- Snap action contacts
- IP40 (dustproof) or IP65 (oiltight) versions



Specifications	Degree of Protection	IP40: Dustproof IP65 Watertight/Oiltight			
	Contact Configuration	SPDT, DPDT			
	Maximum Voltage	250V AC/DC			
	Thermal Current	3A			
	Minimum Applicable Load	5V AC/DC, 1mA			
	Contact Material	Gold-clad silver			
	Terminal Style	.110" Solder/ Quick Connect			
	Operating Temperature	-25° to +55°C (no freezing)			
	Operating Humidity	45 to 85% RH			
	Contact Resistance	50mΩ maximum (initial value)			
	Insulation Resistance	100MΩ minimum (500V DC megger)			
	Vibration Resistance	10 to 55Hz, amplitude 1.5mm p-p			
	Shock Resistance	Damage limits: 500m/sec ² (approx. 50G) Operating extremes: 200m/sec ² (approx. 20G)			
	Electrical Life	100,000 operations minimum (at full rated load)			
Mechanical Life	Maintained: 100,000 operations minimum				
	Momentary: 1,000,000 operations minimum Selector/Keylock: 250,000 operations minimum				
Dielectric Strength	Switch Unit: 2,000V AC, 1 min. between live/dead part and terminals of different poles; 1,000V AC, 1 minute between terminals of the same pole; 1,500V AC, 1 minute between contact and lamp terminals. Illumination Unit: 2,000V AC, 1 min. between live part/ground				
Soldering Temperature	20W/5 seconds or 260°C/3 seconds				
Contact Ratings	Operating Voltage	24V	120V	240V	
	AC (50/60Hz)	Resistive	—	1.0A	0.5A
		Inductive	—	0.7A	0.5A
	DC	Resistive	1.0A	0.2A	—
Inductive		0.7A	0.1A	—	
LED Lamp Ratings	Rated Voltage/Current	5V DC ±5%	6V AC/DC (±10%)	12V AC/DC (±10%)	24V AC/DC (±10%)
		8mA	AC: A, R, W, Y: 8mA G, S: 7mA DC: A, R, W, Y: 6mA G, S: 5mA	AC: 9mA DC: 8mA	AC: 9mA DC: 8mA



1. AC Inductive Load, PF = 0.6 – 0.7; DC Inductive Load, L/R = 7ms.
2. LED lamp contains a built-in current limiting resistor and a protection diode.
3. LED's don't "burn out." Luminance is reduced to 50% of initial intensity after being lit for 50,000 hours continuously.

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

AB6 Non-Illuminated Pushbuttons (Assembled)

Non-Illuminated Pushbuttons

Style	Contact	Part Number			
		Momentary		Maintained (Latching)	
		Dustproof (IP40)	Oiltight (IP65)	Dustproof (IP40)	Oiltight (IP65)
Round 18mm 	SPDT DPDT	AB6M-M1-Ⓞ AB6M-M2-Ⓞ	AB6M-M1P-Ⓞ AB6M-M2P-Ⓞ	AB6M-A1-Ⓞ AB6M-A2-Ⓞ	AB6M-A1P-Ⓞ AB6M-A2P-Ⓞ
Square 18mm 	SPDT DPDT	AB6Q-M1-Ⓞ AB6Q-M2-Ⓞ	AB6Q-M1P-Ⓞ AB6Q-M2P-Ⓞ	AB6Q-A1-Ⓞ AB6Q-A2-Ⓞ	AB6Q-A1P-Ⓞ AB6Q-A2P-Ⓞ
Rectangular 18mm x 24mm 	SPDT DPDT	AB6H-M1-Ⓞ AB6H-M2-Ⓞ	AB6H-M1P-Ⓞ AB6H-M2P-Ⓞ	AB6H-A1-Ⓞ AB6H-A2-Ⓞ	AB6H-A1P-Ⓞ AB6H-A2P-Ⓞ
Round 23.5mm 	SPDT DPDT	-	AB6M-M1P-MⓄ AB6M-M2P-MⓄ	-	AB6M-A1P-MⓄ AB6M-A2P-MⓄ
Square 23.5mm 	SPDT DPDT	-	AB6Q-M1P-QⓄ AB6Q-M2P-QⓄ	-	AB6Q-A1P-QⓄ AB6Q-A2P-QⓄ
Rectangular 17.5 X 23.5mm 	SPDT DPDT	-	AB6Q-M1P-HⓄ AB6Q-M2P-HⓄ	-	AB6Q-A1P-HⓄ AB6Q-A2P-HⓄ


Ⓞ Button Color Code

Color	Code
Black	B
Green	G
Red	R
Blue	S
White	W
Yellow	Y



1. In place of Ⓞ, specify Button Color Code from the table at right.
2. To order as sub-assembled, see page 459.
3. For accessories, see page 466.
4. For dimensions, see page 468.

AB6-V Pushlock Turn Reset

Shape	Operation	Contact	Part Number		Remarks
			Dustproof (IP40)	Oiltight (IP65)	
23.5mm Round Mushroom 	Pushlock Turn Reset	SPDT DPDT	AB6M-V1-R AB6M-V2-R	AB6M-V1P-R AB6M-V2P-R	1. Button available in red only. 2. Replacement button: order AB6M-V-R

Buzzer

Style	Shape	Voltage	Part Number
	Round (18mm)	12V DC	UZ6-11
		24V DC	UZ6-12

Buzzer Ratings

Frequency	2 kHz ± 500 Hz
Amplitude	80db @ 0.1m (at rated voltage)
Operating Voltage	6V AC/DC or 12 - 24V AC/DC ± 10%
Adjustable Cycle	55 to 600 cycles per minute
Current Draw	DC: 7mA, AC: 20mA
Life	1000 hrs. minimum
Insulation Voltage	60V AC/DC
Operating Temperature	-20 to 55 C (no freezing), 45 to 85% rh