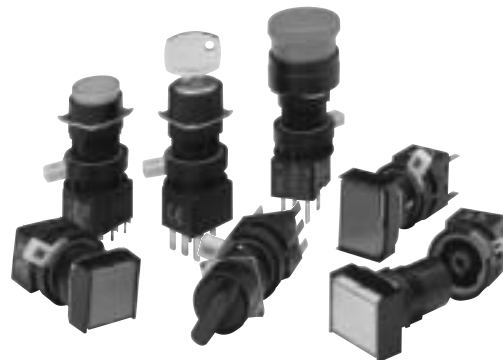


L6 Series — Miniature Switches and Pilot Devices

Key features of the 5/8" L6 Series include:

- 5/8" (16mm) mounting holes
- Locking lever removable contact blocks
- Solder terminal or PCB terminal options
- Available assembled or as sub-components
- Worldwide approvals
- Incandescent or LED illumination
- Snap action contacts



CSA Certified
File No. LR21451











Registration No. R9551089 (E-stops)
Registration No. J9551458 (all other switches)
Registration No. J9650511 (Pilot Lights)



Contact Ratings	Conforming to Standards	EN60947-1, EN60947-5-1, VDE0660-200, UL508, CSA C22-2 N0.14						
	Operating Temperature	Operation: -25 to +55°C (without freezing), 45 to 85% rh Storage: -30 to +80°C (without freezing)						
	Vibration Resistance	5 to 55Hz, 1.0 peak-peak amplitude max						
	Shock Resistance	Operating limit: 100 in/sec ² (approximately 10G) Damage limit: 1000 in/sec ² (approximately 100G)						
	Mechanical Life	Momentary pushbuttons 2,000,000 operations minimum All others: 250,000 operations minimum						
	Degree of Protection	IP65 (conforming to IEC 60529)						
	Dielectric Strength	Switch unit: between live and ground: 2500 volt AC, 1 minute between terminals of different poles: 2500 volt AC, 1 minute between terminals of same pole: 1000 volt AC, 1 minute Illumination unit: between live part and ground: 2500 volt AC, 1 minute						
	Insulation Resistance	100 MΩ minimum (using 500V DC megger)						
	Rated Insulation Voltage	250 V AC/DC						
	Rated Thermal Current	Gold Contacts (pcb): 3A Silver Contacts (solder): 5A						
Contact Resistance	50 Ω maximum initial value							
	Rated Operating Current	Silver Contacts (Solder Terminals)			Gold Clad Contacts (PCB terminals)			
			30V	125V	250V	30V	125V	
		AC resistive	3A	3A	2A	AC inductive	-	0.1A
		AC inductive	2A	2A	1.5A	DC resistive	0.1A	-
		DC resistive	2A	0.4A	-			
		DC inductive	1A	0.2A	-			
Minimum Recommended Load (reference value for silver contacts)	5 VAC/DC, 1mA							
Terminal Style	0.110" Solder Tab /PCB							
Contact Form	Snap Action, Double Throw							
Contact Material	Solder Tab: Pure Silver /PCB thermal Gold Plated Silver							
Electrical Life (at full load)	Momentary pushbuttons: 100,000 operations minimum (1800 operations / hour) All others: 100,000 operations minimum (1200 operations / hour)							
Lamp Ratings	Lamp Current Draw	5V DC LED: 8mA		6V incandescent: 100 mA				
		6V LED: 7mA		12V incandescent: 50 mA				
		12V LED: 8mA		24V incandescent: 25 mA				
	Lamp Life	Incandescent: 2000 hours./LED: 50,000 hours. (on pure DC, half-life intensity)						
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						


Non-Illuminated Pushbuttons (Assembled)

Part Numbers: Non-Illuminated Pushbuttons

Style	Operation	Contact	Terminal Style	
			Solder Tab	PCB
 Round	Momentary	SPDT DPDT	LA1B-M1C5-① LA1B-M1C6-①	LA1B-M1C1V-① LA1B-M1C2V-①
	Maintained	SPDT DPDT	LA1B-A1C5-① LA1B-A1C6-①	LA1B-A1C1V-① LA1B-A1C2V-①
 Square	Momentary	SPDT DPDT	LA2B-M1C5-① LA2B-M1C6-①	LA2B-M1C1V-① LA2B-M1C2V-①
	Maintained	SPDT DPDT	LA2B-A1C5-① LA2B-A1C6-①	LA2B-A1C1V-① LA2B-A1C2V-①
 Rectangular	Momentary	SPDT DPDT	LA3B-M1C5-① LA3B-M1C6-①	LA3B-M1C1V-① LA3B-M1C2V-①
	Maintained	SPDT DPDT	LA3B-A1C5-① LA3B-A1C6-①	LA3B-A1C1V-① LA3B-A1C2V-①
 Oversize Round Flush	Momentary	SPDT DPDT	HA1B-M1C5-① HA1B-M1C6-①	HA1B-M1C1V-① HA1B-M1C2V-①
	Maintained	SPDT DPDT	HA1B-A1C5-① HA1B-A1C6-①	HA1B-A1C1V-① HA1B-A1C2V-①
 Oversize Round Extended	Momentary	SPDT DPDT	HA1B-M2C5-① HA1B-M2C6-①	HA1B-M2C1V-① HA1B-M2C2V-①
	Maintained	SPDT DPDT	HA1B-A2C5-① HA1B-A2C6-①	HA1B-A2C1V-① HA1B-A2C2V-①
 Oversize Square Flush	Momentary	SPDT DPDT	HA2B-M1C5-① HA2B-M1C6-①	HA2B-M1C1V-① HA2B-M1C2V-①
	Maintained	SPDT DPDT	HA2B-A1C5-① HA2B-A1C6-①	HA2B-A1C1V-① HA2B-A1C2V-①
 Oversize Square Extended	Momentary	SPDT DPDT	HA2B-M2C5-① HA2B-M2C6-①	HA2B-M2C1V-① HA2B-M2C2V-①
	Maintained	SPDT DPDT	HA2B-A2C5-① HA2B-A2C6-①	HA2B-A2C1V-① HA2B-A2C2V-①
 Mushroom	Momentary	SPDT DPDT	HA1B-M3C5-① HA1B-M3C6-①	HA1B-M3C1V-① HA1B-M3C2V-①
	Maintained	SPDT DPDT	HA1B-A3C5-① HA1B-A3C6-①	HA1B-A3C1V-① HA1B-A3C2V-①

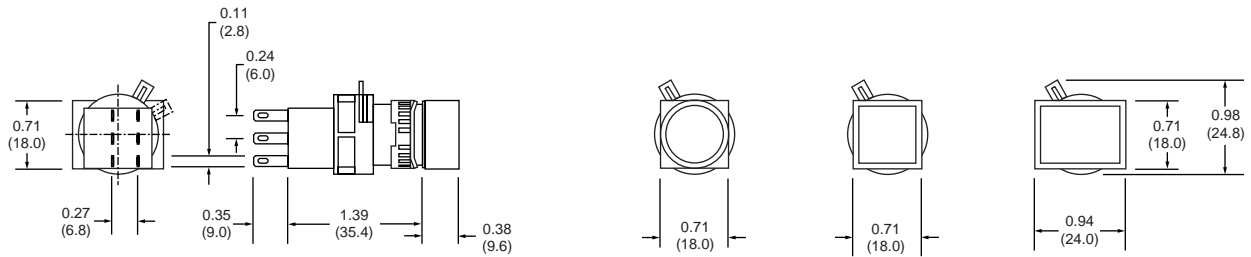
Button Color Codes

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

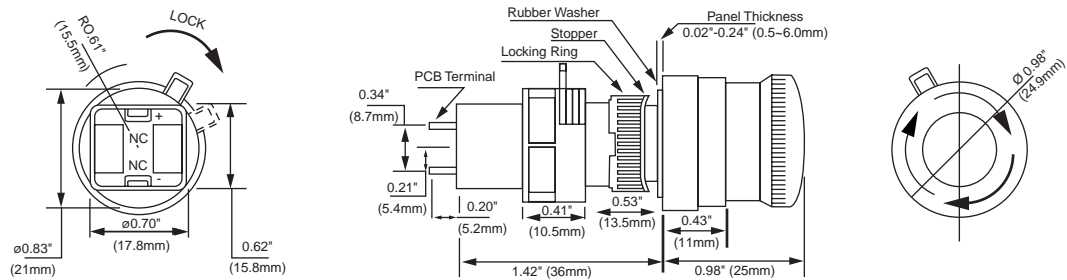
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 1. In place of ① specify Button Color Code from table on right.
 2. Illuminated (translucent) style lenses also available, specify as such: instead of LA1B-M1C5-① use LA1B-M1C5L-② in place of ② specify Lens Color Code from next page.)
 3. PCB terminal models also available with silver contacts (change "1" or "2" to "5" or "6" respectively, ie LA1B-M1C1V-① becomes LA1B-M1C5V-①).

Dimensions

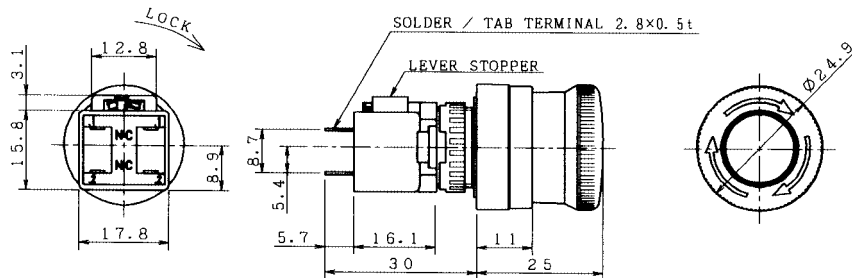
Non-Illuminated Pushbuttons (LA*B)



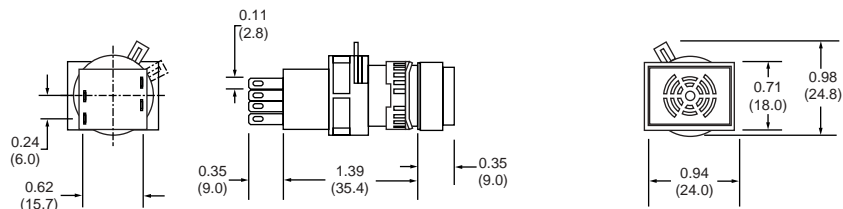
Emergency Stop Switch (HA1B)



Emergency Stop Switch (HA1E)



Buzzer (LA3Z)



Pilot Lights (LA*P)

