

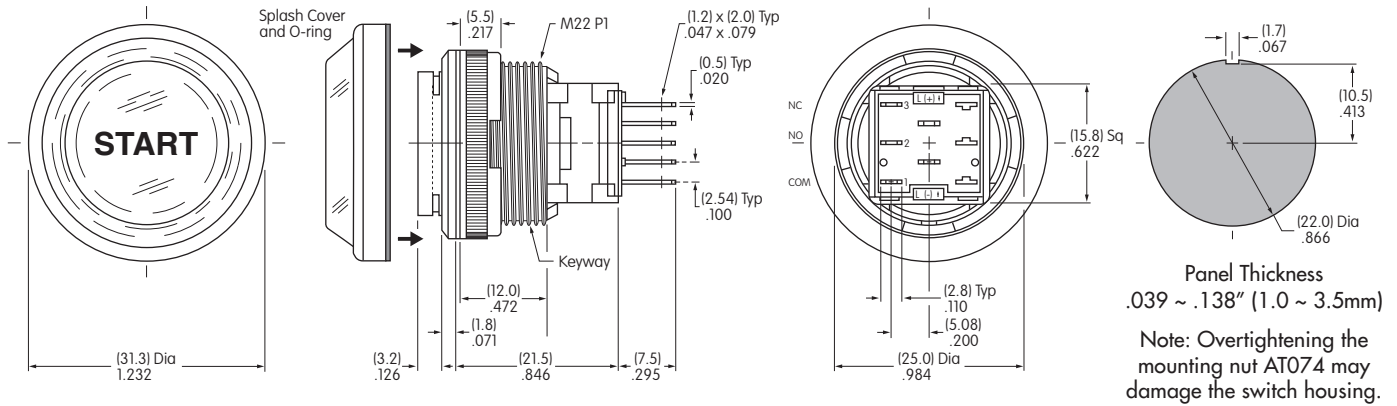
IP65 Panel Seal Pushbutton with Legend & Splash Cover

Series LB

LB15VA002

Bushing Mount • Solder Lug/Quick Connect

Dimensions in mm/inch



BASE SWITCH

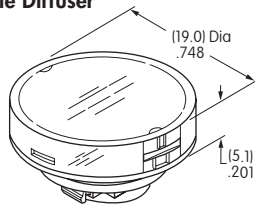
CAP FOR SUPER BRIGHT LED

LEGEND SPECIFICATIONS

Part Number
LB15WKW01/CUL

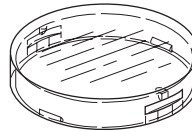
AT4131JB Cap

Clear Lens
White Diffuser

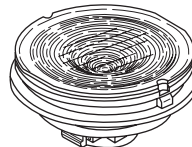


Material:
Polycarbonate

Finish:
Glossy



Transparent
Clear Lens



Transparent
White Diffuser



AT631B
White Super Bright
Single Element LED

Legend	START
Type Style	Helvetica Bold
Type Size	12 Point
Legend Color	Black
Print Method	Laser Etch on Inside of Lens

Legend shown is illustrative only.
Actual art may vary.

Round Splash Cover for Panel Seal

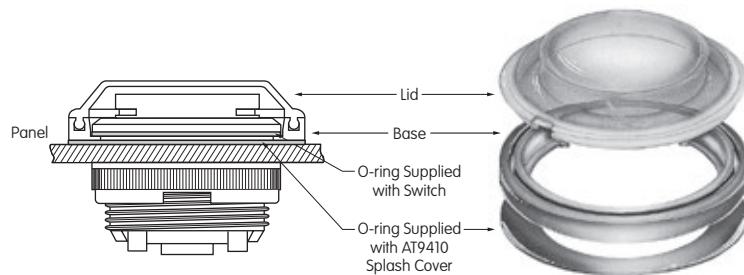
AT9410
Splash Cover

Materials:

Lid: PVC (loses pliability below 0°C/32°F)

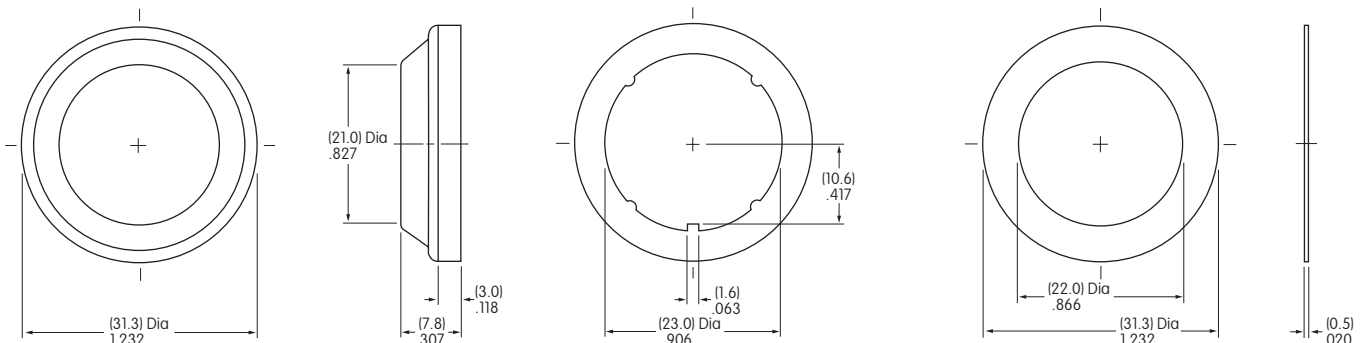
Base: Polyethylene

O-ring: NBR



Splash Cover

O-ring



Base Switch Specifications

Electrical Capacity (Resistive Load)

Power Level: 3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC


Other Ratings

Contact Resistance:	50 milliohms maximum
Insulation Resistance:	200 megohms minimum @ 500V DC
Dielectric Strength:	1,000V AC minimum between contacts for 1 minute minimum; 1,500V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	1,000,000 operations minimum
Electrical Life:	100,000 operations minimum
Nominal Operating Force:	5.39N
Contact Timing:	Nonshorting (break-before-make)
Travel:	Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing:	Glass fiber reinforced polyamide (UL94V-0)
O-ring:	Nitrile butadiene rubber
Inner Seal:	Silicone rubber
Movable Contact:	Silver alloy
Stationary Contacts:	Silver alloy
Base:	Liquid crystal polymer (UL94V-0)
Switch Terminals:	Phosphor bronze with silver plating
Lamp Terminals:	Brass with silver plating

Environmental Data

Operating Temperature Range:	-25°C ~ +50°C (-13°F ~ +122°F). With polyvinyl chloride splash cover, the lowest limit is 0°C (32°F).
Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Sealing:	IP65 of IEC 60529 standard (similar to NEMA 4 & 13)
RoHS Compliant:	






Installation

Mounting Torque:	1.96Nm (17.35 lb•in) maximum
Cap Installation Force:	3.92N maximum downward force on cap
Quick Connect Force:	52.95N maximum downward force on connector
Soldering Time & Temperature:	Manual Soldering: 390°C for 4 seconds, 2 cycles


Standards & Certifications

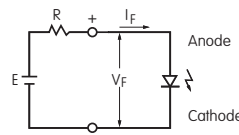
Flammability Standards: UL94V-0 housing & base

POLES & CIRCUITS

Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics
		Normal 	Down 	Normal 	Down 	
SP	LB15	ON	(ON)	1-3	1-2	SPDT 

ELECTRICAL SPECIFICATIONS FOR LED

 AT631B White Super Bright Single Element LED T-1 Bi-pin	Color	White	The electrical specifications shown are determined at a basic temperature of 25°C. For best results and safe use of LEDs, the supply voltage should be more than the LED forward voltage. Also, an appropriately valued ballast resistor should be used, or the LED will be damaged or destroyed. The resistor value can be calculated by using the formula shown here.
	Maximum Forward Current	I_{FM}	
	Typical Forward Current	I_F	
	Forward Voltage	V_F	
	Maximum Reverse Voltage	V_{RM}	
	Current Reduction Rate Above 25°C	ΔI_F	
	Ambient Temperature Range	-25°C ~ +50°C	



$$R = \frac{E - V_F}{I_F}$$

Where: R = Resistor Value (Ohms)
E = Source Voltage (V)
 V_F = Forward Voltage (V)
 I_F = Forward Current (A)

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