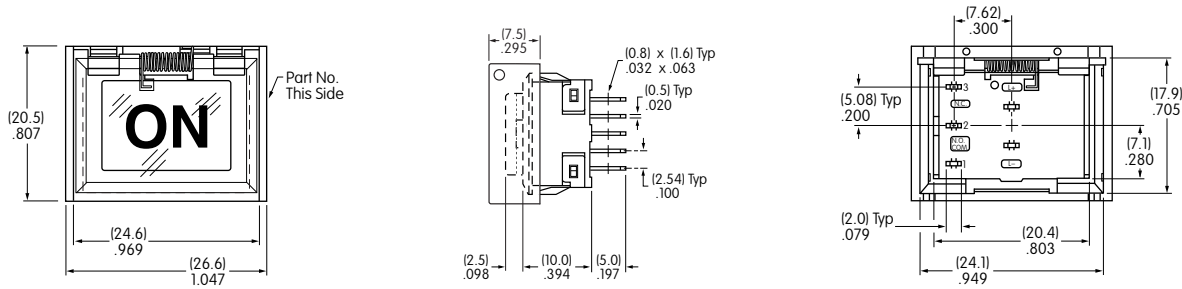


UB16VA001

Rectangular • Green LED • Snap-in Mount • Solder Lug

Dimensions in mm/inch



BASE SWITCH	FULL FACE ILLUMINATED CAP	LEGEND SPECIFICATIONS										
	AT4117 Lens Color: Clear	AT4118 Diffuser Color: White										
Part Number UB16NKW015F-JB												
	Material: Polycarbonate Lens Finish: Glossy Diffuser Finish: Textured	<table border="1"> <tr> <td>Legend</td> <td>ON</td> </tr> <tr> <td>Type Style</td> <td>Helvetica Bold</td> </tr> <tr> <td>Type Size</td> <td>22 Point</td> </tr> <tr> <td>Legend Color</td> <td>Black</td> </tr> <tr> <td>Print Method</td> <td>Laser Etch on Inside of Lens</td> </tr> </table> <p>Legend shown is illustrative only. Actual art may vary.</p>	Legend	ON	Type Style	Helvetica Bold	Type Size	22 Point	Legend Color	Black	Print Method	Laser Etch on Inside of Lens
Legend	ON											
Type Style	Helvetica Bold											
Type Size	22 Point											
Legend Color	Black											
Print Method	Laser Etch on Inside of Lens											

POLES & CIRCUITS						
Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics
		Normal	Down	Normal	Down	
SP	*UB16	ON	ON	1-3	1-2	Notes: Switch is marked with NC, NO, COM, L+ & L-. Lamp circuit is isolated and requires an external power source.

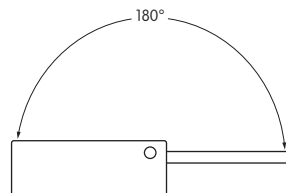
* When in latched position for the alternate circuit, cap position is .039" (1.0mm) above the housing.

Spring Loaded Protective Guard

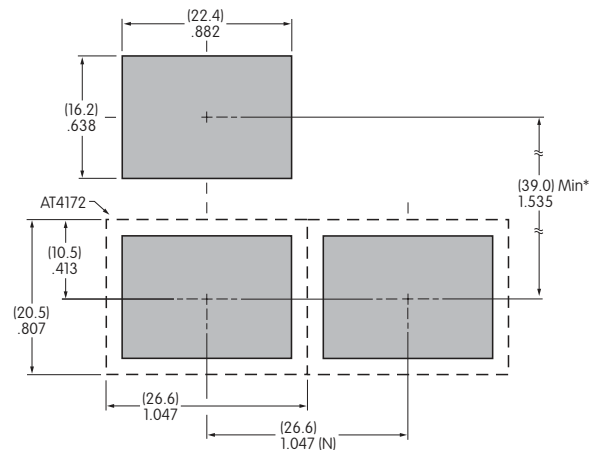
AT4172
Rectangular
Protective Guard

Opens 180°
Closes automatically

Materials:
Cover: Clear Polycarbonate
Base: Black GFR Polyamide
Coil Spring: Stainless Steel



Recommended Panel Thickness:
.039" ~ .106" (1.0mm ~ 2.7mm)

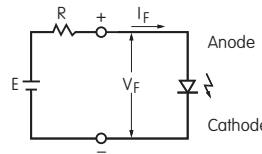


(N) = Number of switches * Minimum dimension allows opening of cover to 180°

ELECTRICAL SPECIFICATIONS FOR LED

Color	Green	
Maximum Forward Current	I_{FM}	25mA
Typical Forward Current	I_F	20mA
Forward Voltage	V_F	2.1V
Maximum Reverse Voltage	V_{RM}	5V
Current Reduction Rate Above 25°C	ΔI_F	0.46mA/°C
Ambient Temperature Range		-25°C ~ +50°C

The electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds the rated voltage, a ballast resistor is required. The following diagram and formula will assist in calculating the value of the ballast resistor.



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

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

Base Switch Specifications

Electrical Capacity (Resistive Load)

Power Level: 5A @ 125/250V AC or 5A @ 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:** 200,000 operations minimum
- Electrical Life:** 10,000 operations minimum; 100,000 operations minimum with resistive load of 3A @ 125V AC
- Nominal Operating Force:** 1.9N
- Contact Timing:** Break before make
- Travel:** Pretravel .067" (1.7mm); Overtravel .024" (0.6mm); Total Travel .091" (2.3mm)

Materials & Finishes

- Housing/Bezel:** Glass fiber reinforced polyamide (UL94V-0)
- Snap-in Frame:** Stainless steel
- Movable Contact:** Phosphor bronze
- Movable Contacts:** Silver alloy or copper with gold plating
- Stationary Contacts:** Silver alloy or copper with gold plating
- Switch Terminals:** Phosphor bronze with silver or gold plating
- Lamp Terminals:** Brass with silver plating
- Base:** Glass fiber reinforced liquid crystal polymer (UL94V-0)

Environmental Data

- Operating Temperature Range:** -25°C through +50°C (-13°F through +122°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/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

RoHS Compliant: 

Installation

- Cap Installation Force:** 7.55N (1.70 lbf) maximum downward force on cap
- Soldering Time & Temp:** Manual Soldering: 390°C for 4 seconds, 2 cycles
- Cleaning:** These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: UL94V-0 housing/bezel & base