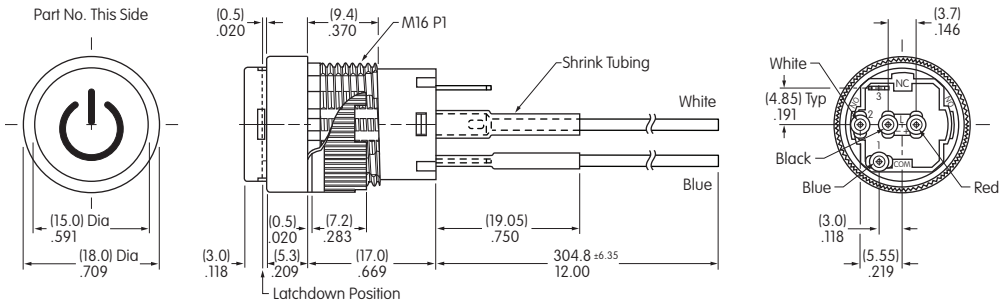
IP65 Panel Seal Pushbutton with Legend & Wire Leads

Series YB

YB15Y020

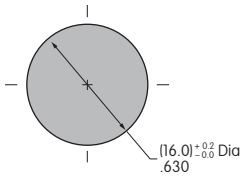
Bushing Mount **Single Pole**

Dimensions in mm/inch



Supplied with mounting nut and AT089 o-ring

PANEL CUTOUT



Panel Thickness Range

.020" ~ .197"
(0.5mm ~ 5.0mm)

BASE SWITCH

Part Number

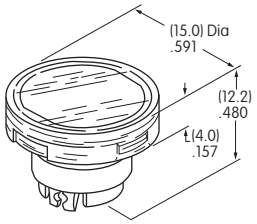
YB15WCKW01-6F-JB

SUPER BRIGHT LED CAP

AT3015JB
Round Cap

Clear Lens
White Insert

Materials
Lens & Insert: Polycarbonate
Seal/Diffuser: Thermoplastic Elastomer



LEGEND SPECIFICATIONS

Legend	Power Symbol
Type Style	N/A
Type Size	N/A
Legend Color	Black
Print Method	Laser Etch on Inside of Lens

Legend shown is illustrative only.
Actual art may vary.

POLES & CIRCUITS

Pole	Model	Plunger Position ( ) = Momentary: Normal	Plunger Position ( ) = Momentary: Down	Connected Terminals: Normal	Connected Terminals: Down	Throw & Switch/Lamp Schematics
						Notes: Switch is marked with NC, NO, COM, L+, L–. Lamp circuit is isolated and requires an external power source.
SP	**YB15**	ON	(ON)	1-3	1-2	SPDT 

WIRING

Number of Wires	Terminal 1	Terminal 2	Terminal L–	Terminal L+
4	Blue	White	Black	Red

WIRING SPECIFICATIONS

UL1007 Stranded Wire	Temperature Range: –40°C and +105°C (–40°F and +221°F)
Voltage: 300V	
22 AWG	

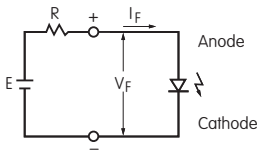
ELECTRICAL SPECIFICATIONS FOR SUPER BRIGHT GREEN LED

Super Bright LED
AT632F

T-1 Bi-pin

Color	Green	ATTENTION ELECTROSTATIC SENSITIVE DEVICES
Maximum Forward Current	I_{FM}	30mA
Typical Forward Current	I_F	20mA
Forward Voltage	V_F	3.3V
Maximum Reverse Voltage	V_{RM}	7V
Current Reduction Rate Above 25°C	ΔI_F	0.40mA/°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: 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 and case for 1 minute minimum
Mechanical Life: 1,000,000 operations minimum
Electrical Life: 100,000 operations minimum
Nominal Operating Force: 1.67N
Contact Timing: Nonshorting (break-before-make)
Plunger Travel: Pretravel .059" (1.5mm)
Overtravel .059" (1.5mm)
Total Travel .118" (3.0mm)

Materials & Finishes

Housing/Bezel: Glass fiber reinforced polyamide (UL94V-0)
Base: Glass fiber reinforced polyamide (UL94V-0)
Movable Contactor: Phosphor bronze with silver plating
Movable Contacts: Silver alloy with silver plating
Stationary Contacts: Silver alloy
Switch Terminals: Phosphor bronze with tin plating
Lamp Terminals: Phosphor bronze with tin plating

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 and 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
RoHS Compliant: RoHS

Installation

Mounting Torque: 0.785Nm (6.95 lb•in) maximum
Quick Connect Force: 24.5N maximum downward force on connector
Soldering Time & Temperature: Manual Soldering: 390°C for 4 seconds maximum, 2 cycles

Standards & Certifications

Flammability Standards: UL94V-0 housing and base