

General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver): 3A @ 125V AC or 3A @ 250V AC or 3A @ 30V DC
Logic Level (gold): 0.4VA maximum @ 28V AC/DC maximum
 (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
 Note: Find additional explanation of operating range in Supplement section.

Other Ratings

Contact Resistance: 50 milliohms maximum for silver; 100 milliohms maximum for gold
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 for momentary circuit
 200,000 operations minimum for maintained circuit
Electrical Life: 100,000 operations minimum
Nominal Operating Force: Single pole: 1.47N for nonsealed; 1.67N for sealed
 Double pole: 2.75N for nonsealed; 2.94N for sealed
Contact Timing: Nonshorting (break-before-make)
Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Materials & Finishes

Housing/Bezel: Glass fiber reinforced polyamide (UL94V-0)
Snap-in Frame: Stainless steel
Base: Glass fiber reinforced polyamide (UL94V-0)
Movable Contactor: Phosphor bronze with silver or gold plating
Movable Contacts: Silver alloy with silver plating or brass with gold plating
Stationary Contacts: Silver alloy or copper with gold plating
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) for Illuminated
 -25°C through +70°C (-13°F through +158°F) for Nonilluminated
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)
Sealing: IP65 of IEC60529 standard for panel seal models

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: See Profile A in Supplement section.

Standards & Certifications

Flammability Standards: UL94V-0 housing & base
UL: **File No. E44145 - Recognized only when ordered with marking on switch.**
 Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.
 All solder lug models recognized at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.
CSA: **File No. 023535_0_000 - Certified only when ordered with marking on switch.**
 Add "/C" before first dash in part number to order CSA certified switch.
 All solder lug models certified at 3A @ 125/250V AC or 0.4VA @ 28V AC/DC maximum.

Distinctive Characteristics

Full face or spot illumination with incandescent lamps or multi-element LEDs, with or without resistors.

Choice of super bright LEDs in white, green, and blue as well as bright LEDs in red, amber, and green.

Combination bezel-barrier is an integral part of the switch and prevents accidental actuation.

Unique thermoplastic elastomer seal inside caps plus rolled sleeve of nitrile butadiene rubber at joining of housing and inner case, all for added protection to interior mechanism.

Dust and oil tight as well as splashproof panel seal models qualify to IP65 of IEC60529 Standards (similar to NEMA 4 and 13). Panel seal models provided with exterior o-ring.

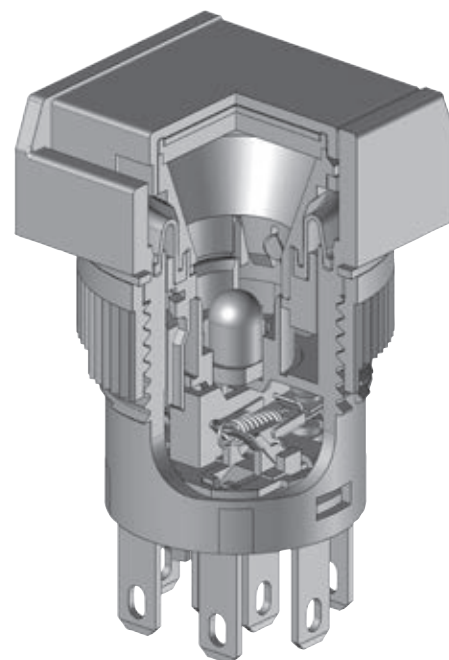
Distinctive design of snap-action contacts for shock resistance, long life, and sensitive actuation.

High density design to give behind panel depth of less than one inch.

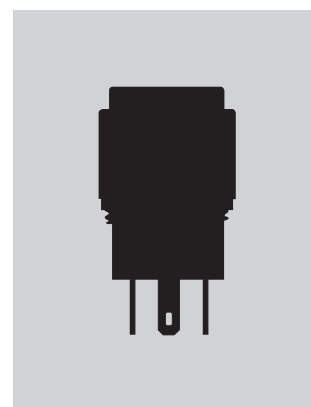
Terminals are epoxy sealed to lock out flux, dust, solvents, and other contaminants.

Latchdown for indication of circuit status, plus audible, tactile feedback with smooth, responsive operation.

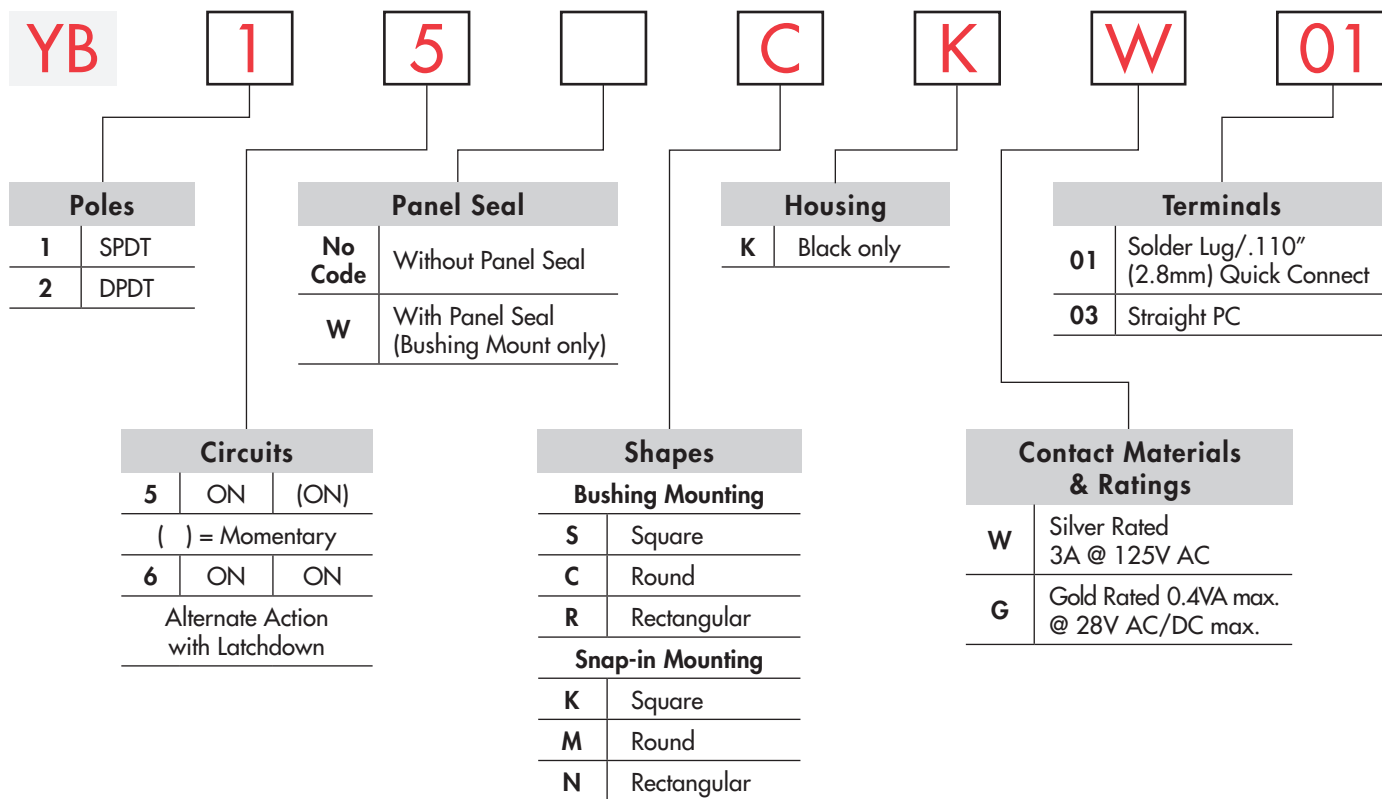
Matching indicators available.



Actual Size



TYPICAL SWITCH



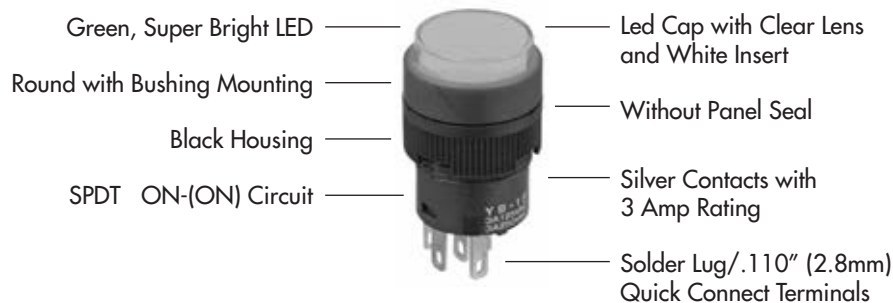
IMPORTANT:



Switches are supplied without UL & cULus marking unless specified.
UL & cULus recognized only when ordered with marking on switch.
 Specific models, ratings, & ordering instructions are noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

YB15CKW01-6F-JB



ORDERING EXAMPLE

6 F

Lamps

Incandescent Lamp

05	5-volt
12	12-volt
No Code	Nonilluminated

LED for Spot Illuminated Cap

LED Colors		Forward Voltage	
1C	Red	02	2-volt (no resistor)
1D	Amber	05	5-volt
1F	Green	12	12-volt
1CF	Red/Green	24	24-volt

Bright LED

LED Colors		Resistor	
5C	Red	No Code	No Resistor
5D	Amber	05	5-volt
		12	12-volt
5F	Green	24	24-volt

Super Bright LED

6B	White
6F	Green
6G	Blue

Bicolor LED for Full Face Illuminated

LED Colors		Forward Voltage	
2CF	Red/Green	02	2-volt (no resistor)
		05	5-volt
		12	12-volt
		24	24-volt

JB

Cap Types & Colors

Solid Cap: Lens/Insert Colors

BB	White/White
CB	Red/White
EB	Yellow/White
FB	Green/White
GB	Blue/White

Spot Illuminated Cap: Lens/Insert Colors

JA	Clear/Black
JB	Clear/White
JC	Clear/Red
JE	Clear/Yellow
JF	Clear/Green

LED Cap: Lens/Insert Colors

JB	Clear/White
JC	Clear/Red
JD	Clear/Amber
JF	Clear/Green

LED Cap: Lens/Insert Colors

JB	Clear/White
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LED Cap: Lens/Insert Colors

JB	Clear/White
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Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

POLES & CIRCUITS

Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Switch/Lamp Schematics
		Normal	Down	Normal	Down	
SP	YB15 *YB16	ON ON	(ON) ON	1-3	1-2	SPDT Notes: Switch is marked with NC, NO, COM, L+, L-. Lamp circuit is isolated and requires external power source.
DP	YB25 *YB26	ON ON	(ON) ON	1-3 4-6	1-2 4-5	DPDT

* When in latchdown position for the alternate circuit, cap position is .020" (0.5mm) above the built-in bezel.

PANEL SEAL

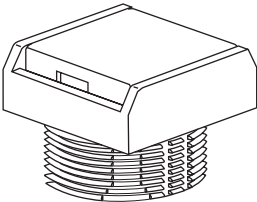
No Code

Without Panel Seal

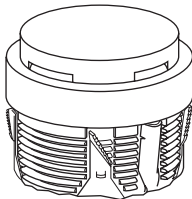
W

With Panel Seal

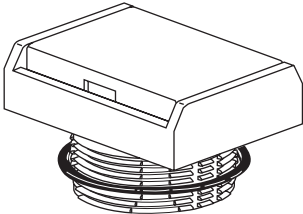
Bushing
Mounting



Snap-in
Mounting



Bushing
Mounting
only



Supplied with
mounting nut.

Supplied with
mounting nut
and o-ring AT089.

SHAPES & MOUNTING TYPES

Bushing Mounting

Snap-in Mounting

S

Square

C

Round

R

Rectangular

K

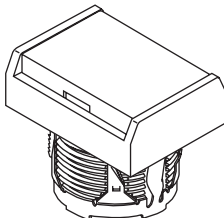
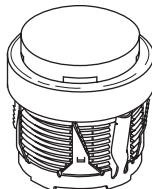
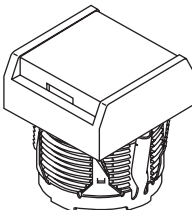
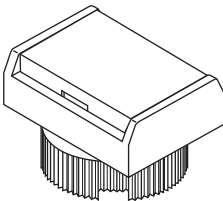
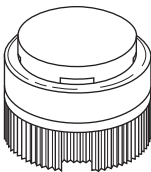
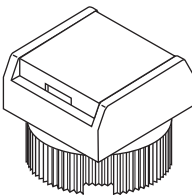
Square

M

Round

N

Rectangular



Bezel-barrier is an integral part of the switch body.

HOUSING

K

Black

Housing available in black only. The 1-piece body and bezel-barrier have a matte finish.

CONTACT MATERIALS & RATINGS

W

Silver Contacts

Power Level

3A @ 125/250V AC

G

Gold Contacts

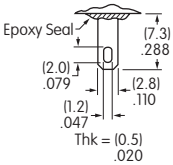
Logic Level

0.4VA max. @ 28V AC/DC max.

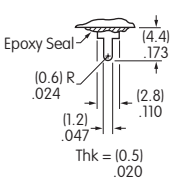
Complete explanation of operating range in Supplement section.

TERMINALS

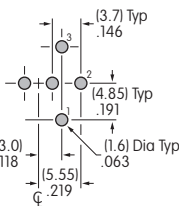
01 Solder Lug/
.110" (2.8mm) Quick Connect



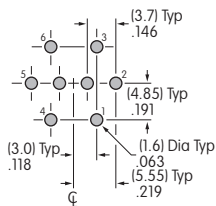
03 Straight PC



Single Pole



Double Pole



INCANDESCENT LAMP & SOLID CAP

Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation.
For dimension drawing of lamp see the Accessories & Hardware section.

AT611  T-1 Bi-pin		05	12	
	Voltage	V	5V AC	12V AC
	Current	I	115mA	60mA
	MSCP		.150	.150
	Endurance	Hours	7,000 average	
	Ambient Temperature Range		-25°C ~ +50°C	

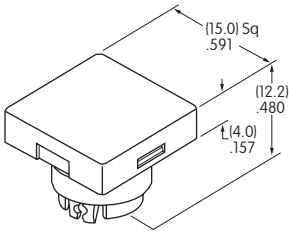
No Code No Lamp

Solid Cap for Incandescent Lamp & Nonilluminated

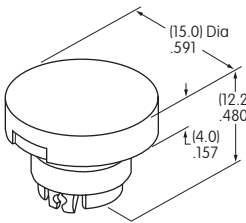
Lens/Insert
Colors Available:

- BB** White/White
- CB** Red/White
- EB** Yellow/White
- FB** Green/White
- GB** Blue/White

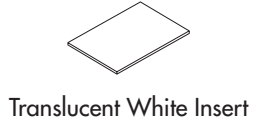
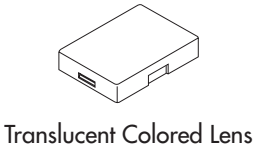
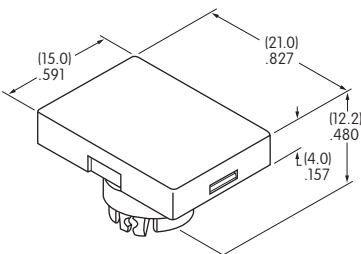
AT3001
Square



AT3002
Round



AT3003
Rectangular



Materials:

Lens & Insert: Polycarbonate Seal/Filter: Thermoplastic Elastomer

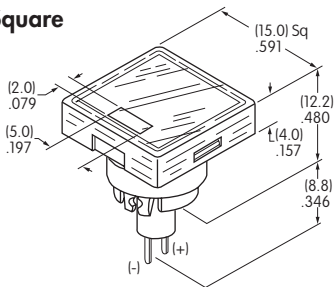
Incandescent Lamp AT611

Toggles
Rockers
Pushbuttons
D Illuminated PB
Programmable
Keylocks
Rotaries
Slides
Tactiles
Tilt
Touch
Indicators
Accessories
Supplement

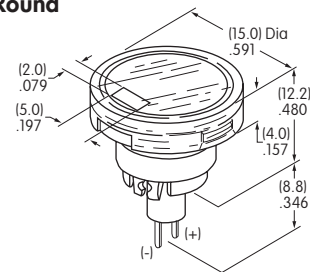
SPOT ILLUMINATED CAP WITH BUILT-IN LED

This spot-illuminated cap is factory assembled.

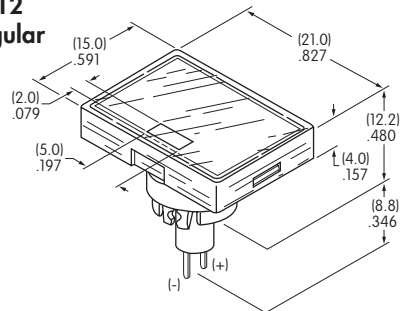
AT3010
Square



AT3011
Round



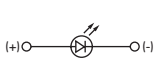
AT3012
Rectangular



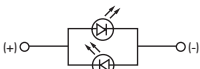
Colors Available:		02	02	05	12	24	Unit
1C	1D	1F	1CF	Without Resistor	Without Resistor	With Resistor	
Red	Amber	Green	Red/Green	Red or Amber	Green or Red/Green	All Colors	
Maximum Forward Current		I _{FM}	20	20	15	15	mA
Typical Forward Current		I _F	15	15	12.5	12.5	mA
Forward Voltage		V _F	1.9	2.1	5	12	V
Maximum Reverse Voltage (not applicable to bicolor)		V _{RM}	5	5	5	5	V
Current Reduction Rate Above 25°C		ΔI _F	0.27	0.27	—	—	mA/°C
Ambient Temperature Range			-25 ~ +50				°C

Without Resistor 2-volt

With Resistor 5, 12, 24-volt



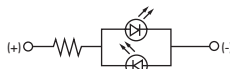
Single Color



Bicolor



Single Color



Bicolor

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Single color LEDs are colored in OFF state. Bicolor LED is translucent white in OFF state.

If the source voltage exceeds the rated voltage, a ballast resistor is required.
The resistor value can be calculated by using the formula in the Supplement section.

Lens/Insert
Colors Available:

JA Clear/Black

JB Clear/White

JC Clear/Red

JE Clear/Yellow

JF Clear/Green



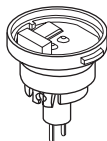
Clear Lens



Colored Insert



Seal



Built-in LED
(integral part
of the cap)

Example part number
when cap is ordered separate
from switch:
AT3010F02JA
for a
Square Spot Illuminated Cap
with Green 2-volt LED
without resistor
Clear Lens and Black Insert

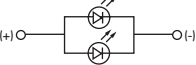
Materials:

Lens & Insert: Polycarbonate
Seal: Thermoplastic Elastomer

BRIGHT LED & LED CAPS

The electrical specifications shown are determined at a basic temperature of 25°C.
LED circuit is isolated and requires external power source.
If the source voltage exceeds the rated voltage, a ballast resistor is required.
The resistor value can be calculated by using the formula in the Supplement section.

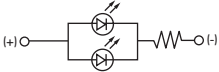
Electrical Specifications for Bright LED without Resistor

Bright AT628   T-1 Bi-pin	Colors Available:	5C Red	5D Amber	5F Green	No Code No Resistor	Unit
	LED Colors	Red	Amber	Green		
	Maximum Forward Current	I_{FM}	40	40	40	mA
	Typical Forward Current	I_F	26	26	26	mA
	Forward Voltage	V_F	1.9	2.0	2.0	V
	Maximum Reverse Voltage	V_{RM}	4	4	4	V
	Current Reduction Rate Above 25°C	ΔI_F	0.50			mA/°C
	Ambient Temperature Range	-25 ~ +50				°C

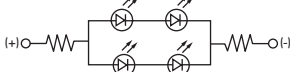
Electrical Specifications for Bright LED with Resistor

Bright AT634  T-1 1/4 Bi-pin	Colors Available:	5C Red	5D Amber	5F Green	05	12	24	Unit
	Maximum Forward Current	I_{FM}	—	—	—	—	—	mA
	Typical Forward Current	I_F	25	20	10	—	—	mA
	Forward Voltage	V_F	5	12	24	—	—	V
	Maximum Reverse Voltage	V_{RM}	4	8	16	—	—	V
	Current Reduction Rate Above 25°C	ΔI_F	—	—	—	—	—	mA/°C
	Ambient Temperature Range	-25 ~ +50						°C

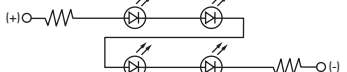
AT634
5-volt,
2-element
with Resistor



AT634
12-volt,
4-element
with Resistor



AT634
24-volt,
4-element
with Resistor

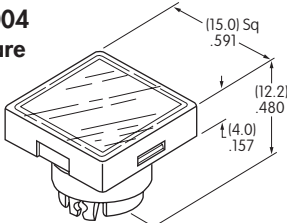


Cap for Bright LED

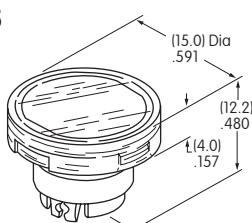
Lens/Insert
Colors Available:

- JB** Clear/White
- JC** Clear/Red
- JD** Clear/Amber
- JF** Clear/Green

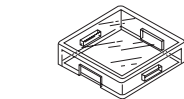
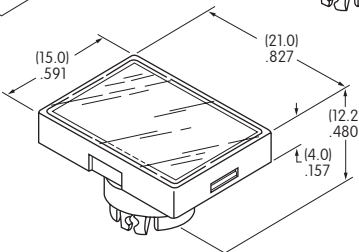
AT3004
Square



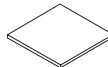
AT3005
Round



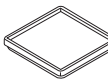
AT3006
Rectangular



Transparent Clear Lens



Translucent Colored Insert



Translucent White Seal/Diffuser



Bright LEDs
AT628 AT634

Materials:

Lens & Insert: Polycarbonate Seal/Diffuser: Thermoplastic Elastomer

SUPER BRIGHT LED & LED CAPS

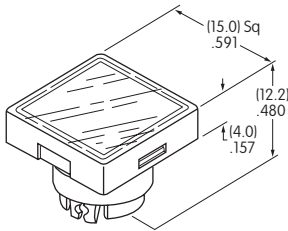
The electrical specifications shown are determined at a basic temperature of 25°C.
LED circuit is isolated and requires external power source.
If the source voltage exceeds the rated voltage, a ballast resistor is required.
The resistor value can be calculated by using the formula in the Supplement section.

Electrical Specifications for Super Bright LED

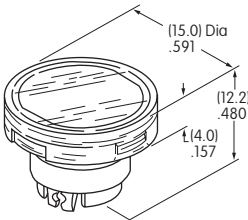
Super Bright AT625G Blue AT631B White AT632F Green  T-1 Bi-pin	  Colors:	6B White	6F Green	6G Blue	Unit	
	Maximum Forward Current	I_{FM}	30	30	30	mA
	Typical Forward Current	I_F	20	20	20	mA
	Forward Voltage	V_F	3.3	3.3	3.3	V
	Maximum Reverse Voltage	V_{RM}	7	7	7	V
	Current Reduction Rate Above 25°C	ΔI_F	0.40	0.40	0.40	mA/°C
	Ambient Temperature Range		-25 ~ +50			°C

Cap for Super Bright LED

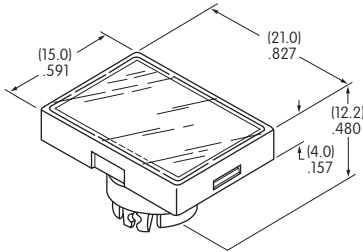
AT3014
Square



AT3015
Round



AT3016
Rectangular

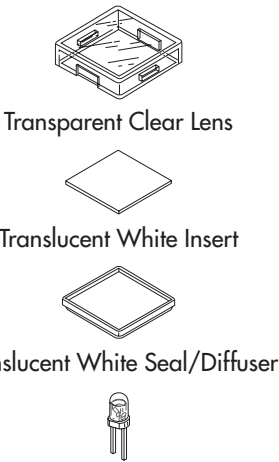


Lens/Insert
Colors Available:

JB

 Clear/White

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



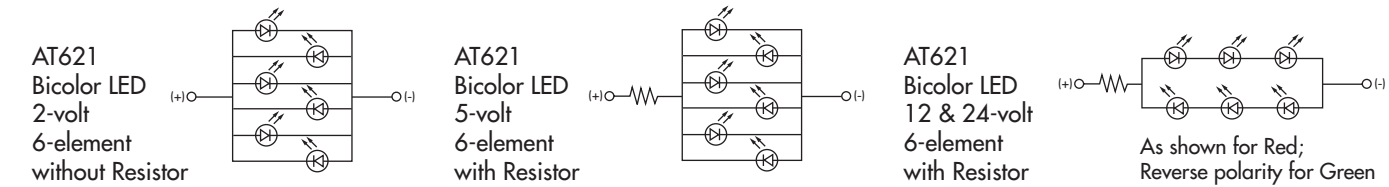
Super Bright LEDs
AT625 AT631
AT632

BICOLOR LED & LED CAPS

The electrical specifications shown are determined at a basic temperature of 25°C.
LED circuit is isolated and requires external power source.
If the source voltage exceeds the rated voltage, a ballast resistor is required.
The resistor value can be calculated by using the formula in the Supplement section.

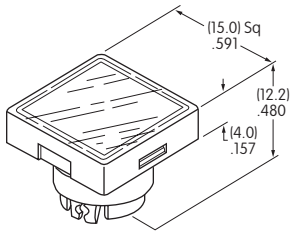
Electrical Specifications for Bicolor LED

Bicolor AT621 2CF Red/Green  T-1 1/2 Bi-pin	Bicolor LED is translucent white in OFF state.	02	05	12	24	Unit
	Maximum Forward Current I_{FM}	60	60	20	12	mA
	Typical Forward Current I_F	45	45	15	10	mA
	Forward Voltage (Red/Green) V_F	1.9 / 2.1	5	12	24	V
	Current Reduction Rate Above 25°C ΔI_F	0.80	—	—	—	mA/°C
	Ambient Temperature Range	-25 ~ +50				°C

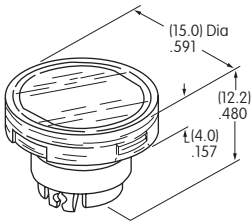


LED Caps

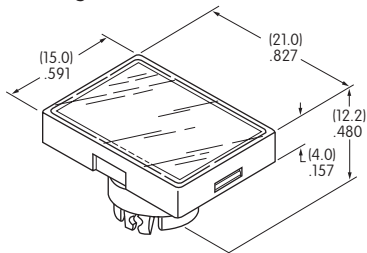
AT3004 Square



AT3005 Round



AT3006 Rectangular



Lens/Insert
Colors Available:

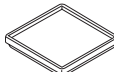
JB

 Clear/White

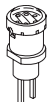
Transparent Clear Lens



Transparent White Insert



Translucent White Seal/Diffuser



Materials:

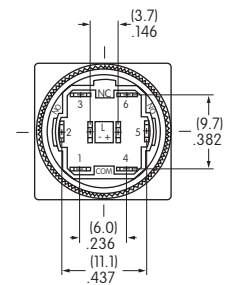
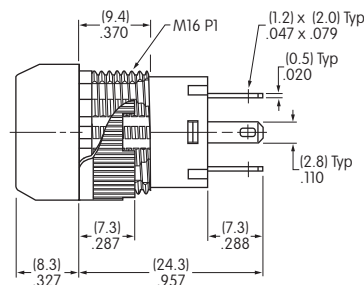
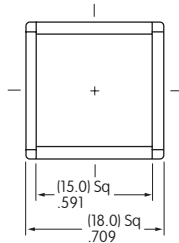
Lens & Insert: Polycarbonate Seal/Diffuser: Thermoplastic Elastomer

Bicolor LED AT621

TYPICAL SWITCH DIMENSIONS

Square • Bushing Mounting

Single & Double Pole

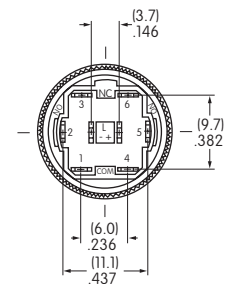
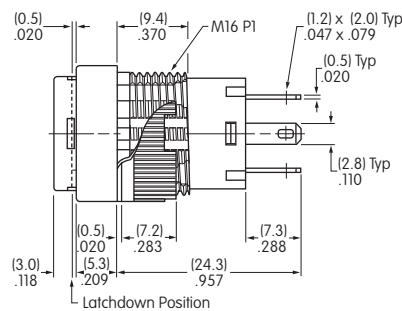
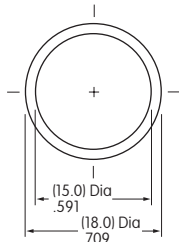


YB15SKW01-12-CB

Single pole models do not have terminals 4, 5, & 6.

Round • Panel Seal

Single & Double Pole

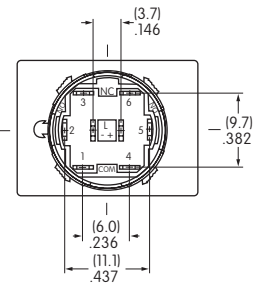
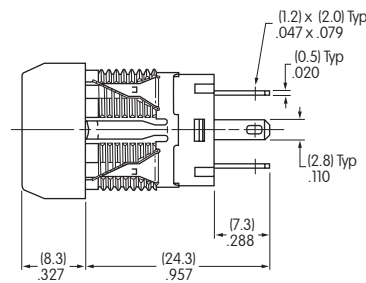
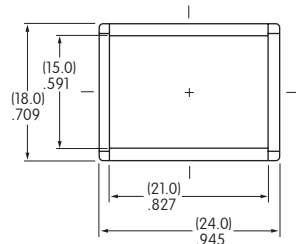


YB26WCKW01-12-EB

Single pole models do not have terminals 4, 5, & 6.

Rectangular • Snap-in Mounting

Single & Double Pole



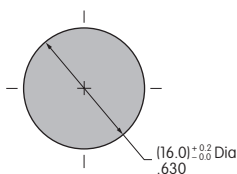
YB15NKW01-5C-JC

Single pole models do not have terminals 4, 5, & 6.

PANEL THICKNESS & CUTOUTS

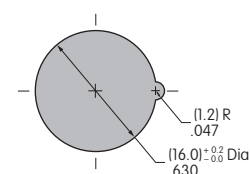
Bushing & Panel Seal Mount

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



Snap-in Mount

Panel Thickness
.039" ~ .138"
(1.0mm ~ 3.5mm)



OPTIONAL ACCESSORIES

Dust Covers and Protective Guards reduce depth of switch behind panel by .047" (1.2mm).

Panel Thickness Range with Dust Cover or Protective Guards:

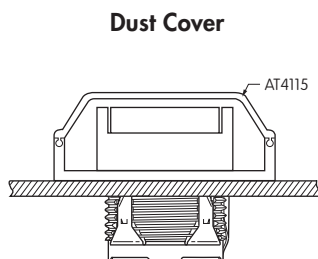
Bushing Mounting
.020" ~ .150" (0.5mm ~ 3.8mm)

Snap-in Mounting
.020" ~ .091" (0.5mm ~ 2.3mm)

Panel Seal
.020" ~ .118" (0.5mm ~ 3.0mm)

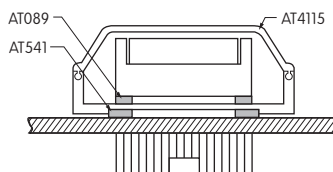
**AT4115 Dust Cover
for Snap-in or
Bushing Mount**

**AT4115 Splash Cover
and AT541 O-ring
for Bushing Mount**



Dust/Splash Cover

Splash Cover



AT4115

AT541

Materials:

Lid: Polyvinyl Chloride
Base: Polyamide
O-ring: Nitrile butadiene rubber

Snap-in Mount

Panel Seal

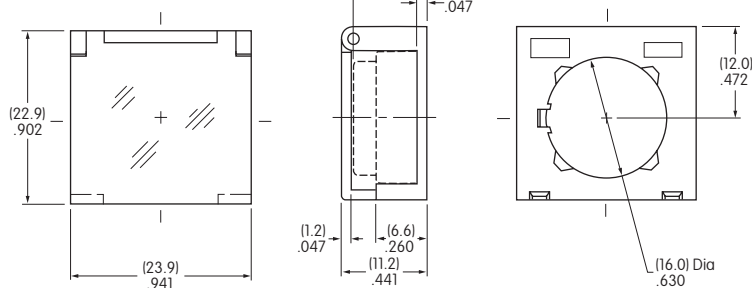
Note: AT089 o-ring supplied
with panel seal model.

AT4072 Protective Guard

Opens 90°
Closes manually



Protective Guard



Materials:

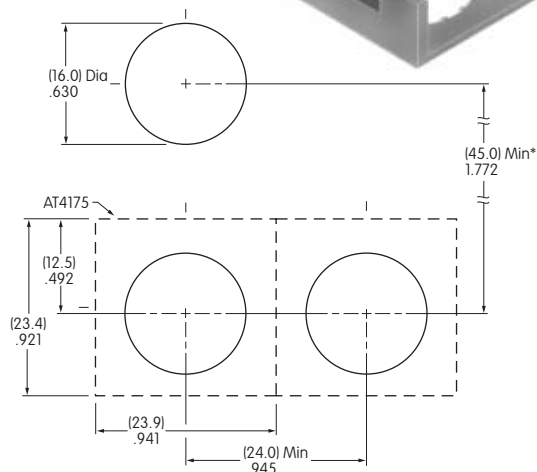
Lid: Polycarbonate
Base: Glass Fiber
Reinforced Polycarbonate

**AT4175 Spring Loaded
Protective Guard**

Opens 180°
Closes automatically

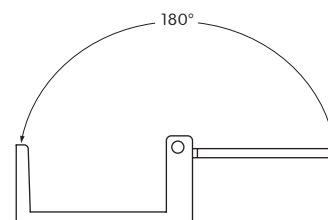


Spring Loaded Protective Guard



Materials:

Lid: Polycarbonate
Base: Glass Fiber Reinforced Polyamide
Coil Spring: Stainless Steel

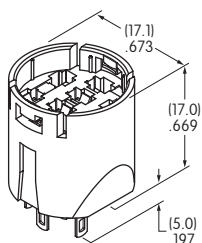
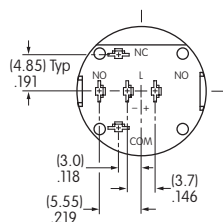


* Minimum dimension allows opening of cover to 180°

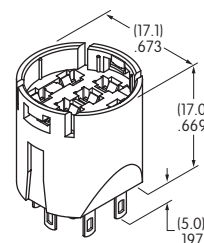
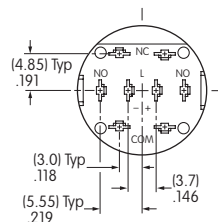
OPTIONAL ACCESSORIES

Adaptors

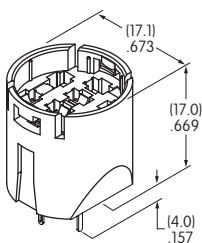
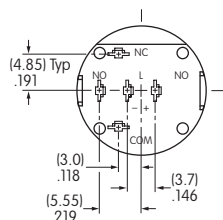
AT716
Single Pole
Solder Lug/
Quick Connect
Terminals



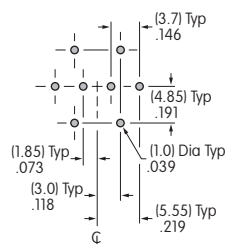
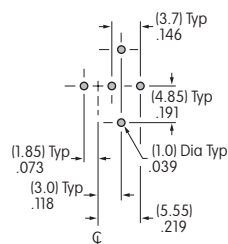
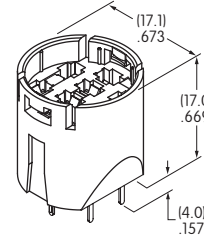
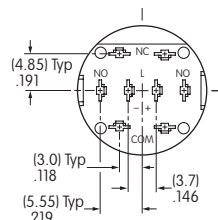
AT717
Double Pole
Solder Lug/
Quick Connect
Terminals



AT718
Single Pole
Straight PC
Terminals



AT719
Double Pole
Straight PC
Terminals

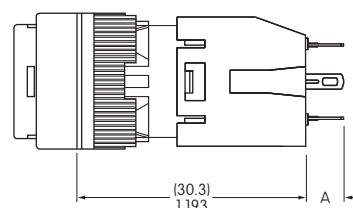


Material: Glass fiber reinforced polyamide Note: Order adaptors separately

Switch Dimensions Shown with Adaptor AT716

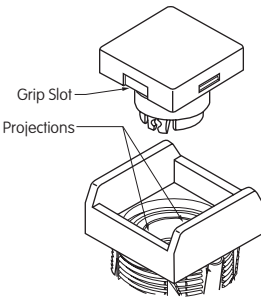
Dimension A:
Solder Lug .197" (5.0mm); Straight PC .157" (4.0mm)

Panel thickness for YB Bushing Mount:
.020" ~ .197" (0.5mm ~ 5.0mm)

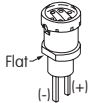
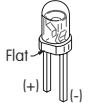
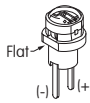
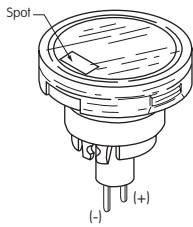
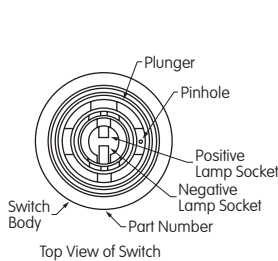


ASSEMBLY INSTRUCTIONS

Cap Assembly



LED Polarity & Orientation in Lamp Socket



Spot Illuminated Cap with Built-in LED

LED AT628 AT634

LEDs AT625G AT631B AT632F

Toggle
Rockers
Pushbuttons
D Illuminated PB

The following installation tools are available: AT106 Socket Wrench for bushing mounting (Overtightening the mounting nut AT092 may damage the switch housing.); AT109 Cap Extractor; AT111 Lamping Tool. Further details and dimensions are shown in the Accessories and Hardware section.

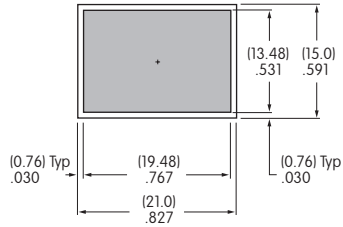
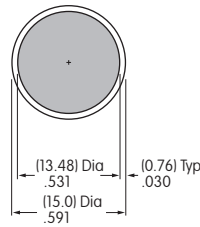
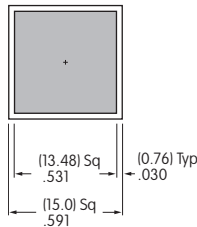
LEGENDS

NKK Switches can provide custom legends for caps. Contact factory for more information.

Programmable
Keylocks

Suggested Printable Area for YB Lens

Recommended Methods: Laser Etch on clear lens, Screen Print or Pad Print on Lens.
Epoxy based ink is recommended.

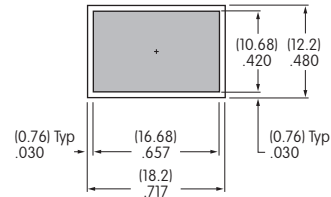
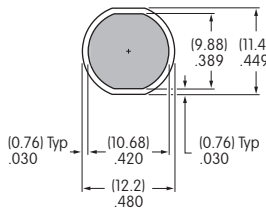
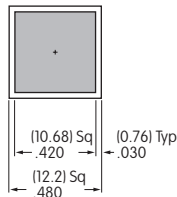
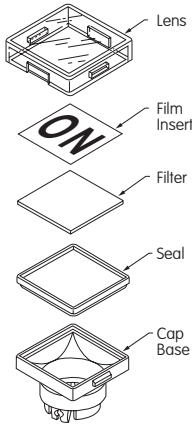


Shaded areas are printable areas.

Rotaries
Slides
Tactiles
Tilt

Suggested Printable Area for Film Insert

Recommended Print Method: Laser Print
Film Insert: Clear Polyester, 4 mil max. thickness



Shaded areas are printable areas.

Touch
Indicators
Accessories
Supplement

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

[YB16SKG01-CB](#) [YB16RKG01-CB](#) [YB16KKG01-GB](#) [YB16KKG01-CB](#) [YB16NKG01-GB](#) [YB16RKG01-GB](#)
[YB16NKG01-CB](#) [YB16MKG01-GB](#) [YB16CKG01-CB](#) [YB16CKG01-GB](#) [YB26NKG01-FB](#) [YB15WCKW01-BB](#)
[YB15WSKW01-BB](#) [YB15MKW03-GB](#) [YB15WRKW01-FB](#) [YB15WCKW01-GB](#) [YB15MKW03-FB](#) [YB15WCKW01-FB](#)
[YB15WSKW01-GB](#) [YB15WRKW01-CB](#) [YB15WSKW01-FB](#) [YB15RKW03-EB](#) [YB15WRKW01-BB](#) [YB15MKW03-EB](#)
[YB15NKW03-BB](#) [YB15CKW03-BB](#) [YB15RKW03-BB](#) [YB15WCKW01-EB](#) [YB15NKW03-EB](#) [YB15RKW03-CB](#)
[YB15KKW03-EB](#) [YB15SKW03-GB](#) [YB15NKW03-GB](#) [YB15NKW03-CB](#) [YB15CKW03-EB](#) [YB15WRKW01-EB](#)
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[GB](#) [YB15RKW03-FB](#) [YB15SKW03-BB](#) [YB15WCKG03-BB](#) [YB15KKW03-BB](#) [YB15MKW03-BB](#) [YB15WCKG03-FB](#)
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[FB](#) [YB15WCKW03-FB](#) [YB15WSKW03-BB](#) [YB15WRKW03-CB](#) [YB15WCKW03-CB](#) [YB15WSKW03-GB](#)