

TYPICAL INDICATOR ORDERING EXAMPLE

KB **02** **K** **W01** — **12** — **FF**

SHAPES

Bushing Mounting

01	Square
02	Round
03	Rectangular

Snap-in Mounting

04	Square
05	Round
06	Rectangular

HOUSING

K	Black only
---	------------

TERMINALS

W01	Silver Solder Lug
-----	-------------------

LAMPS

Incandescent Lamp used w/Solid Cap

05	5-volt
12	12-volt

Incandescent or Neon Lamp used with Insert Cap

05	5-volt
12	12-volt
01	110-volt Neon

Bright LED used with Cap for LED

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

Super Bright LED used w/Cap for LED

6B	White
6F	Green
6G	Blue

CAP TYPES & COLORS

Solid Cap: Lens/Filter Colors

BB	White/White	FB	Green/White
CB	Red/White	FF	Green/Green
CC	Red/Red	GB	Blue/White
EB	Yellow/White	GG	Blue/Blue

Insert Cap: Lens/Filter Colors

JB	Clear/White
JC	Clear/Red
JE	Clear/Yellow
* JF	Clear/Green
* JG	Clear/Blue

* JF & JG not suitable with neon.

LED Cap: Lens/Diffuser Colors

AB	Square Spot Illuminated Black Cap/White Window
JB	Clear/White
JC	Clear/Red
JD	Clear/Amber
JF	Clear/Green

LED Cap: Lens/Diffuser Colors

JB	Clear/White
----	-------------

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

KB02KW01-12-FF

Black Housing
Round with Bushing Mounting

Silver Solder Lug Terminals

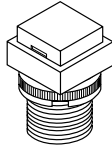


12-volt Incandescent Lamp
Solid Cap with Green Lens
and Green Filter

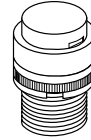
SHAPES & MOUNTING TYPES

Bushing Mounting

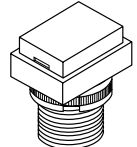
01 .551" (14mm)
Square



02 .551" (14mm)
Round

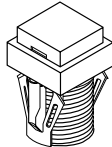


03 .551" x .728" (14mm x 18.5mm)
Rectangular

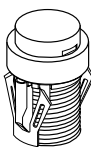


Snap-in Mounting

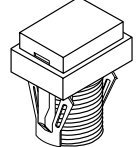
04 .551" (14mm)
Square



05 .551" (14mm)
Round



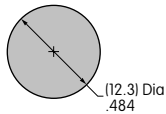
06 .551" x .728" (14mm x 18.5mm)
Rectangular



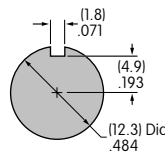
The bezel is an integral part of the indicator body.

Bushing Mounting

Without
Keyway



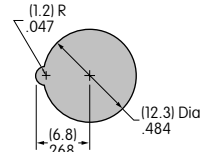
Panel Thickness:
.020" ~ .315"
(0.5 ~ 8mm)



With
Keyway

Snap-in Mounting

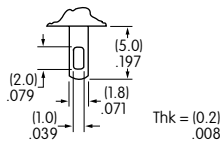
Panel Thickness:
.039" ~ .138"
(1.0 ~ 3.5mm)



TERMINALS

W01

Silver Solder Lug



LAMP COLORS & SPECIFICATIONS

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 ballast resistor calculation and more lamp detail are shown in the Supplement section.

Incandescent & Neon Lamps

AT611 Incandescent	AT615 Neon		05	12	01	Recommended Resistors for Neon: 33K ohms for 110V AC; 100K ohms for 220V AC
						
		Voltage	V	5V AC	12V AC	
		Current	I	115mA	60mA	
		Endurance	Hours	7,000 average		10,000

Bright LED without Resistor

AT635 LEDs are colored in OFF state.   T-1 1/2 Bi-pin								
		Red	Amber	Green	No Code		No Resistor	
	Color Codes	5C	5D	5F	Red	Amber	Green	
	Forward Peak Current				I _{FM}	30mA	30mA	30mA
	Continuous Forward Current				I _F	20mA	20mA	20mA
	Forward Voltage				V _F	1.9V	2.0V	2.1V
	Reverse Peak Voltage				V _{RM}	5V	5V	5V
	Current Reduction Rate Above 25°C				ΔI _F	0.42mA/°C	0.29mA/°C	0.42mA/°C
	Ambient Temperature Range				-25° ~ +50°C			

(+) — (X) — (-)

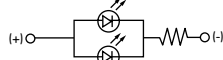
T-1 1/2 Bi-pin

LAMP COLORS & SPECIFICATIONS

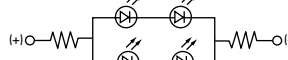
The electrical specifications shown are determined at a basic temperature of 25°C.
If the source voltage exceeds the rated voltage, a ballast resistor is required.
The ballast resistor calculation and more lamp detail are shown in the Supplement section.

Bright LED with Resistor						
AT634 LEDs are colored in OFF state.  T-1 1/4 Bi-pin	Red	Amber	Green	Resistor Codes		
	Color Codes: 5C	5D	5F	05	12	24
	Forward Peak Current			I_{FM}	—	—
	Continuous Forward Current			I_F	25mA	20mA
	Forward Voltage			V_F	5V	12V
	Reverse Peak Voltage			V_{RM}	4V	8V
	Current Reduction Rate Above 25°C			ΔI_F	—	—
	Ambient Temperature Range				-25° ~ +50°C	

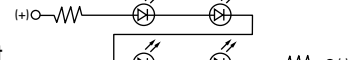
AT634
5-volt
2-element
with 1 Resistor

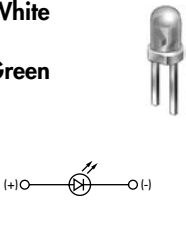


AT634
12-volt
4-element
with 2 Resistors



AT634
24-volt
4-element
with 2 Resistors



Super Bright Single Element LED					
AT625G Blue AT631B White AT632F Green  T-1 Bi-pin		Color	6B White	6F Green	6G Blue
	Forward Peak Current	I_{FM}	30mA	30mA	30mA
	Continuous Forward Current	I_F	20mA	20mA	20mA
	Forward Voltage	V_F	3.6V	3.5V	3.6V
	Reverse Peak Voltage	V_{RM}	5V	5V	5V
	Current Reduction Rate Above 25°C	ΔI_F	0.50mA/°C	0.50mA/°C	0.50mA/°C
	Ambient Temperature Range		-25° ~ +50°C		

CAP TYPES & COLOR COMBINATIONS

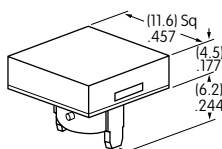
Color Codes: **B** White **C** Red **E** Yellow **F** Green **G** Blue **J** Clear

Solid Cap for Incandescent Lamp

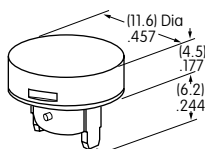
Lens/Filter Colors Available:

BB	FB
CB	FF
CC	GB
EB	GG

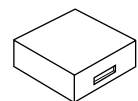
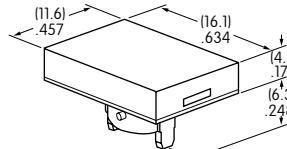
AT485
Square



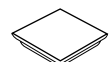
AT486
Round



AT4021
Rectangular



Translucent Colored Lens



Translucent Colored Filter



Lamp AT611

Material: Polycarbonate Finish: Glossy

CAP TYPES & COLOR COMBINATIONS

Color Codes: **A** Black **B** White **C** Red **D** Amber **E** Yellow **F** Green **G** Blue **J** Clear

Insert Cap for Incandescent or Neon Lamp

Lens/Filter Colors Available:

JB

AT487
Square

AT488
Round

AT4022
Rectangular



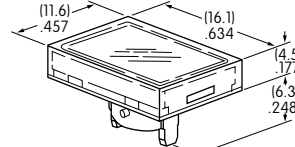
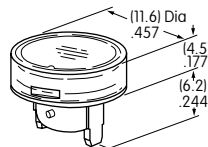
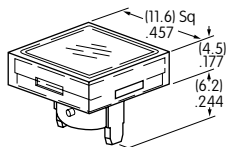
Transparent Clear Lens

JC

JE

JF

JG



Translucent Colored Filter



JF and JG not suitable with neon lamp.

Material: Polycarbonate Finish: Glossy

Lamp AT611 Lamp AT615

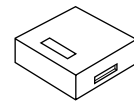
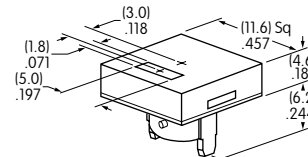
Spot Illuminated Cap for Bright LED without Resistor or with Resistor

Cap/Window Colors Available:

AB

Opaque Black Cap with Translucent White Window for Spot Illumination

AT4051
Square



Bright LED
AT635

Bright LED
AT634

Material: Polycarbonate Finish: Matte

Cap for Bright LED without Resistor or LED with Resistor

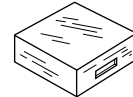
Lens/Diffuser Colors Available: (AT4133, 4132, 4134 white diffusers; AT4158, 4160, 4159 colored diffusers)

JB

AT4133

AT4132

AT4134



Transparent Clear Lens

Square

Round

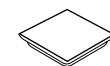
Rectangular

JC

AT4158

AT4160

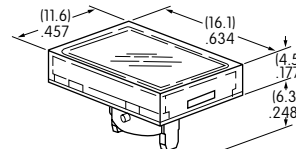
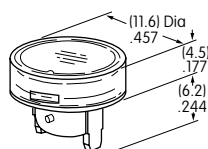
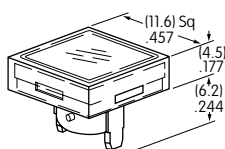
AT4159



Translucent Diffuser

JD

JF



Bright LED
AT635

Bright LED
AT634

Material: Polycarbonate Finish: Glossy

CAP TYPES & COLOR COMBINATIONS

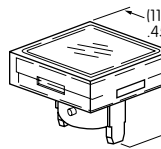
Cap for Super Bright LED

Lens/Diffuser
Colors Available:

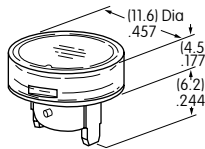
JB

Clear Lens
White Diffuser

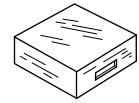
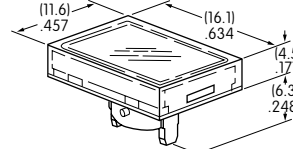
AT4133
Square



AT4132
Round



AT4134
Rectangular



Translucent Clear Lens



Translucent White Diffuser

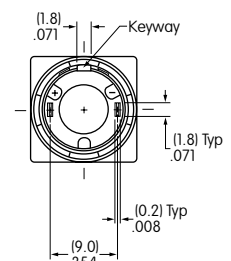
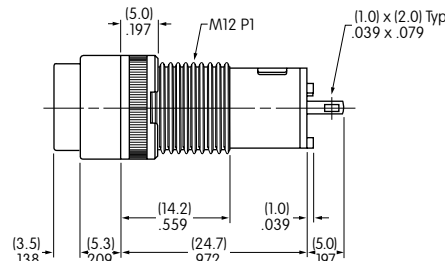
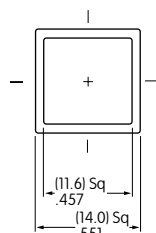
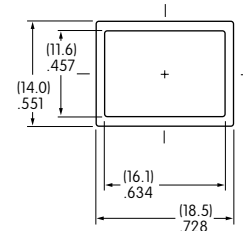
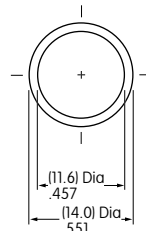


Super Bright LEDs
AT625, AT631, AT632

Material: Polycarbonate Finish: Glossy

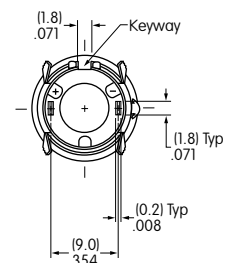
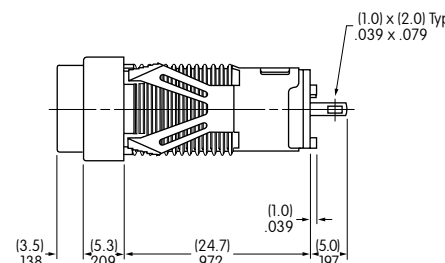
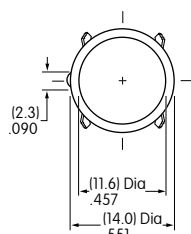
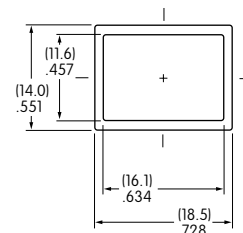
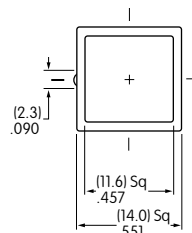
TYPICAL SWITCH DIMENSIONS

Bushing Mount



KB01KW01-05-GG

Snap-in Mount



KB05KW01-05-FF