Supplement | Accessories | Indicators

General Specifications

Electrical Capacity

Resistive Load: 10A @ 125V AC, 6A @ 250V AC, or 6A @ 30V DC

Inductive Load: 5A @ 125V AC (P. F. @ .60)

Other Ratings

10 milliohms maximum **Contact Resistance:**

Insulation Resistance: 200 megohms minimum @ 500V DC **Dielectric Strength:** 1,500V AC minimum for 1 minute minimum

Mechanical Life: 30,000 operations minimum **Electrical Life:** 10,000 operations minimum

Nominal Operating Force: 11.77N for maintained & 17.65N for momentary

Angle of Throw:

Materials & Finishes

Housing: Steel with chrome plating

Movable Contacts: Silver clad copper with silver plating

Stationary Contacts: Copper with silver plating

> Melamine Base:

Common Terminal: Copper with tin plating Brass with tin plating **End Terminals:**

Lamp Terminals: Phosphor bronze with nickel plating

Environmental Data

-20°C through +50°C (-4°F through +122°F) **Operating Temperature Range:**

90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

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

50G (490m/s²) acceleration (tested in 3 right angled directions, with 3 shocks in each direction) Shock:

Installation

Cap Installation Force: 19.61N (4.41 lbf)

SolderingTime & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

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 models recognized at 10A @ 125V AC & 6A @ 250V AC



Rockers

Indicators

Supplement | Accessories

Distinctive Characteristics

Each half of the rocker face is distinctly illuminated due to partitioned rocker construction and dual lamps.

Numerous lighting effects achievable by using white or clear rocker with colored filters or lamp covers, plus using different colors on each side of rocker.

Snap-in mounting allows fast, easy installation of switch into panel.

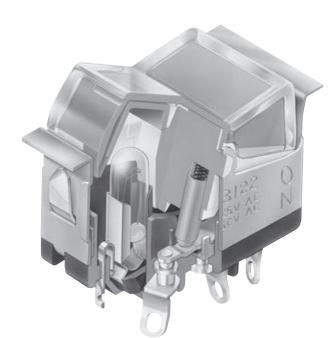
Stainless steel retaining clips provide secure mounting over a wide range of panel thicknesses.

Dual incandescent or neon lamps operate independently of each other.

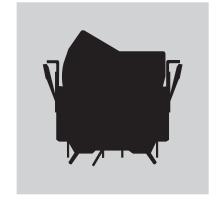
Front panel relamping.

Stationary lamp sockets are independent of rocker actuation, protecting lamps from damage due to shock and vibration.

Switch contacts are rated at 10 amps 125V AC which makes these devices well-suited for various power switching applications.



Actual Size



Ė

Ν

0

110-volt

Not suitable with green & blue

Nonilluminated

No Lamp

LW31 Pole Lamp Cover/ **Rocker Caps Filter Colors DPDT** For Down Position White without filters 1 or lamp covers No Cover/Filter 2 White with filters **Circuits Lamp Cover** 3 White with lamp covers Up Center Down C Red 2 4 Clear with filters ON NONE ON D Amber 3 ON OFF ON F Green 5 **Filter** ON NONE (ON) Lamp Cover/ 8 White (ON) **OFF** (ON) В **Filter Colors** C 9 OFF Red ON (ON) For Up Position D Amber () = Momentary No Cover/Filter Ε Yellow **Lamp Cover** F Red Green C Lamps G Blue D Amber Incandescent F Green 6-volt Ε **Filter** F 12-volt Bezel White В Н 18-volt No No Bezel C Red Code Κ 24-volt D Amber Black Α L 28-volt Ε Yellow В White Neon F Green C Red

TYPICAL SWITCH ORDERING EXAMPLE

IMPORTANT:

G

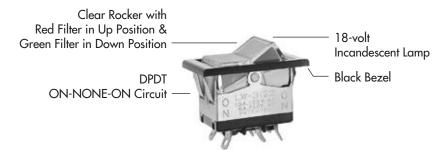


Switches are supplied without UL & cULus marking unless specified. UL & cULus recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on General Specifications page.

Blue

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LW3122-H4CF-A



D

Ε

F

G

Н

Amber

Yellow

Green

Blue

Gray

Up

ON

ON

ON

(ON)

ON

Center

NONE

OFF

NONE

OFF

OFF

POLES & CIRCUITS Rocker Position () = Momentary

Down

ON

ON

(ON)

(ON)

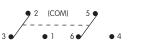
(ON)

2-3 5-6

Connected Terminals			Throw & Power/Lamp Schematics
Up	Center	Down	Notes: Terminal numbers are not actually o

lly on switch. Lamp circuit is isolated and requires an external power source.

DPDT





LAMP CODES & SPECIFICATIONS

OPEN

2-1 5-4

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

For neon, if the source voltage is greater than rated voltage, a ballast resistor is required. The ballast resistor calculation and more lamp detail are shown in the Supplement section. Neon not for use with green lamp cover or blue and green filters.

Incandescent & Neon Lamps for Solid & Design Caps

AT602 AT602N Incandescent Neon

Pole

DP

Model

LW3122

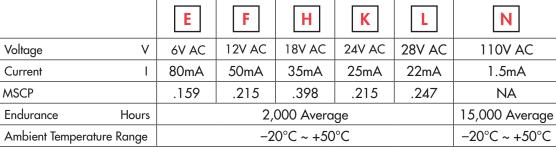
LW3123

LW3125

LW3128

LW3129





Recommended Resistor for Neon: 33K ohms for 110V AC; 100K ohms for 220V AC

T-11/2 Pilot Slide Base

0

No Lamp Code 0 indicates that no lamp is used.

ROCKER CAPS, LAMP COVER & FILTER

AT420B White Rocker without Filters or Lamp Covers



AT420B White Rocker with Filters



AT420B White Rocker with Lamp Covers



AT420J

Clear Rocker with Filters



Rocker Cap Material: Polycarbonate

Finish: Glossy

Indicate the lamp cover or filter color desired in both the up and down positions.

AT416 Lamp Cover

Red Amber













Green

Blue



Material: Polycarbonate



Amber

BEZEL & BEZEL COLORS

AT206 Bezel & Color Codes



No Bezel

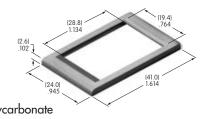


White



Green





Black

Red

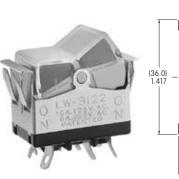
Yellow

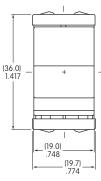
Blue

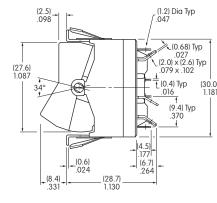
Material: Polycarbonate

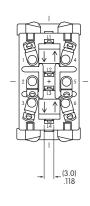
TYPICAL SWITCH DIMENSIONS

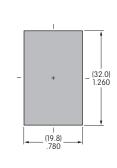
Solder Lug • Without Bezel









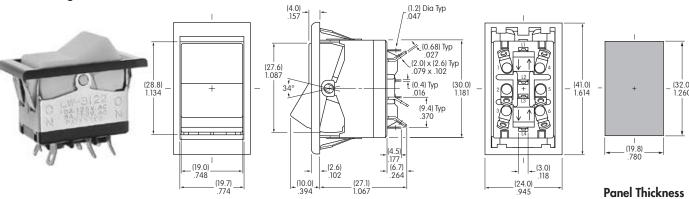


LW3122-F4CF

Actuator in UP position

Panel Thickness .039" ~ .157" (1.0mm ~ 4.0mm)

Solder Lug • With Bezel



LW3122-F3CF-A

Actuator in UP position

.039" ~ .118" (1.0mm ~ 3.0mm)

OPTIONAL ACCESSORY

AT107 Lamp Extractor

Lamps can be changed without removing the switch from the panel. AT107 assists in removing lamps from the switch.



LEGENDS

Inscriptions can be placed on the rocker or filter. Details regarding screen printing may be obtained from the factory.

