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

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.

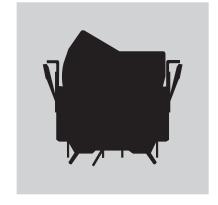
Front panel relamping.

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





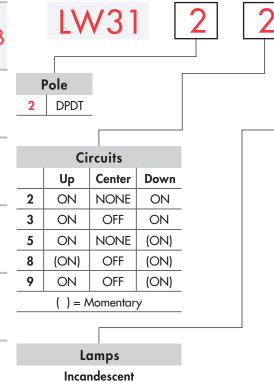
No Cover/Filter

Ε F

Н

0

TYPICAL SWITCH ORDERING EXAMPLE



	Rocker Caps						Fi	imp Cover/	
	1	1	ite witho amp cov	out filters ers			o for I	Down Position No Cover/File	
	2					_	Lamp Cover		
	3	3 White with lamp covers			ers		С	Red	
	4	4 Clear with filters					D	Amber	
							F	Green	
						Filter			
	Lamp Cover/ Filter Colors					В	White		
		For Up Position					С	Red	
		0	No	Cover/Fil	lter		D	Amber	
		Lamp Cover				_	E	Yellow	
	C D		Red			_	F	Green	
			Am	ber		_	G	Blue	
		F	Gre	en					
	Filter						D.		
		В	Wh	ite				No.	
			I					INO I	

1	Bezel					
No Code	No Bezel					
Α	Black					
В	White					
С	Red					
D	Amber					
E	Yellow					
F	Green					
G	Blue					
Н	Gray					

K	24-volt				
L	28-volt				
Neon					
N	110-volt				
Not suitable with green & blue					

6-volt

12-volt

18-volt

Not suitable with green	& blue
Nonilluminated	

No Lamp	
	_

IMPORTANT:

Blue

Red

Amber

Yellow

Green



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.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

C

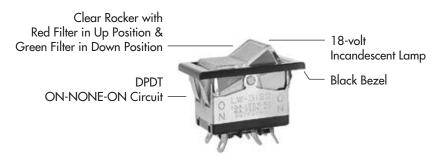
D

Ε

F

G

LW3122-H4CF-A





POLES & CIRCUITS Rocker Position Connected Terminals Throw & Power/Lamp Schematics () = Momentary Center Notes: Terminal numbers are not actually on Up Center Down Up Down Pole Model switch. Lamp circuit is isolated and requires an external power source. LW3122 ON NONE ON **DPDT** LW3123 OFF ON ON DP LW3125 NONE 2-3 5-6 **OPEN** 2-1 5-4 ON (ON) LW3128 OFF (ON) (ON) OFF LW3129 ON (ON)

LAMP CODES & SPECIFICATIONS

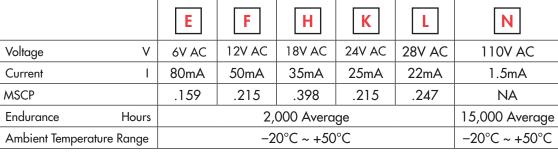
Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. For dimension drawing of lamps see Accessories & Hardware section.

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





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



AT421

Rocker Cap Material: Polycarbonate

Finish: Glossy

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

Red Amber Green

Green

Blue

Yellow

AT421 Filter

Material: Polycarbonate



Material: Silicon Rubber







White

Slides

Supplement | Accessories

BEZEL & BEZEL COLORS

AT206 Bezel & Color Codes



Black

No Bezel



White

Red



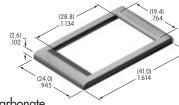
Yellow



Green

Blue

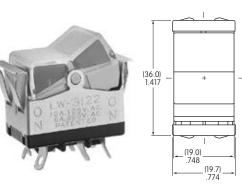


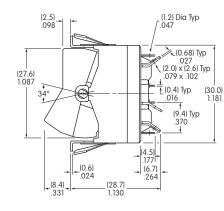


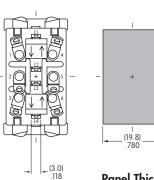
Material: Polycarbonate

TYPICAL SWITCH DIMENSIONS

Solder Lug • Without Bezel





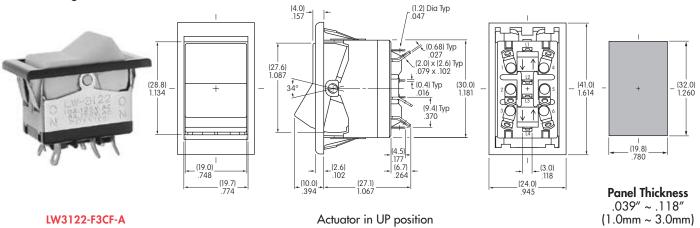


LW3122-F4CF

Actuator in UP position

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

Solder Lug • With Bezel



LW3122-F3CF-A

Actuator in UP position

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.



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84312LX PREDD5-07F-BB0GW 999-16716-002 999-16716-003 999-16716-004 A101J1V3Q004 A101J2ZQ004 A101J4ZQ004
A101J51CB0004 A103J1ZQ004 A201J1AQ004 A201J3ZB004 A201J50ZQ004 A203J51ZQ0004 A435S1YZQ H8500XBBBBL-A
H8653VBBG2577W HB130CHNWWNAAC R13112ABB-602W 1251.0303 AE205J60V3B004 1352.0107 1500G51E 1571099-3
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