

Distinctive Characteristics

Various cap styles and colors to meet differing application needs.

Bright, full-face illumination to distinctively indicate status.

Rear panel threaded mounting or snap-in mounter for front panel mounting.

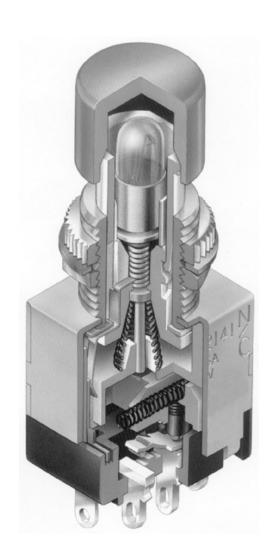
5-amp power rating standard. Dry circuit capability available.

Detent switching mechanism provides positive indication of actuation.

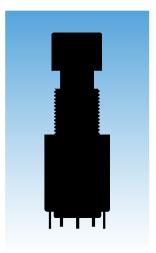
Heavy gauge steel case protects switch components and increases durability.

1,500V dielectric strength between contacts and case is accomplished by clinching the frame away from the terminals.

Solder lug and PC terminals staked into base.



Actual Size





General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver): 5A @ 125V AC & 3A @ 250V AC or 3A @ 30V DC

Logic or Power Level (gold over silver): 0.4VA maximum @ 28V AC/DC maximum or 5A @ 125V AC

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: See Supplement section to find explanation of dual rating & operating range.

Other Ratings

Contact Resistance: 10 milliohms maximum for silver; 20 milliohms maximum for gold

200 megohms minimum @ 500V DC **Insulation Resistance:**

1,000V AC minimum between contacts for 1 minute minimum; Dielectric Strength:

1,500V AC minimum between contacts & case for 1 minute minimum

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

Nominal Operating Force: 12.75N for momentary; 11.77N for alternate action

Pretravel: .039" (1.0mm); Overtravel: .157" (4.0mm); Total Travel: .196" (5.0mm) Travel:

Materials & Finishes

Polyacetal resin Plunger:

Bushing: Brass with nickel plating Steel with chromate over zinc Housing:

Movable Contact:

Stationary Contacts: Silver with silver plating or silver with gold plating

Base: Phenolic resin

Common Terminals: Copper with silver plating

End Terminals: Copper with silver plating or copper with gold plating

Lamp Terminals: Brass with nickel plating

Environmental Data

-10°C through +50°C (+14°F through +122°F) for spot illuminated **Operating Temperature Range:**

> -20°C through +50°C (-4°F through +122°F) for other illuminated -10°C through +50°C (+14°F through +122°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

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

Cap Installation Force: 19.62N (4.41 lbf) maximum downward force on cap

Soldering Time & Temperature: 4 seconds maximum @ 410°C maximum

Standards & Certifications

UL & C-UL Recognition: All models recognized at 5A @ 125V AC;

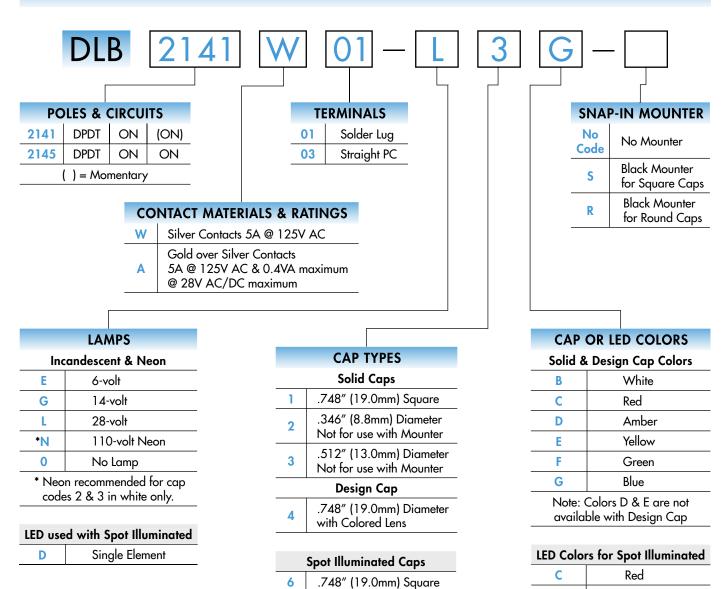
UL File No. WOYR2.E44145 & C-UL File No. WOYR8.E44145;

add "/U" to end of part number to order UL mark on switch & add "/UC" to end of part

number to order C-UL mark on switch (equivalent to CSA certification).





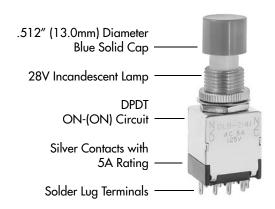


.748" (19.0mm) Diameter

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

7

DLB2141W01-L3G



IMPORTANT:

F

Green



Switches are supplied without UL & C-UL markings unless specified. Specific models & ratings noted on General Specifications page.



POLES & CIRCUITS Plunger Position Throw & Power/Lamp Schematics Connected Terminals () = Momentary Normal Normal Notes: Terminal numbers are not actually on the Down Down switch. Lamp circuit is isolated and Pole Model requires an external power source. **DLB2141** ON (ON) **DPDT** DP 2-3 5-6 2-1 5-4 **DLB2145** ON ON

CONTACT MATERIALS & RATINGS

Power Level

3A @ 125V AC & 250V AC

Gold over Silver

Power Level or Logic Level 5A @ 125V AC

or 0.4VA maximum @ 28V AC/DC maximum

Note: This dual rated option is suitable when two or more identical switches are used in logic and in power circuits within the same application. See Supplement Index for complete explanation of dual rating and operating range.

TERMINALS

Solder Lua

Wiring for Solder Lug Terminals

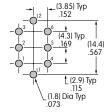
Straight PC



Power terminal hole of .035" x .079" (0.9mm x 2.0mm) accommodates one solid 20-gauge wire or two solid or stranded 22-gauge wires.

Lamp terminal hole of .035" (0.9mm) diameter accommodates one solid 20-gauge wire.





INCANDESCENT & NEON LAMP CODES & SPECIFICATIONS

Electrical specifications are determined at a basic temperature of 25°C. Lamp circuit is independent of switch operation. Incandescent & Neon lamps can be used with solid & design caps.

AT604 & AT604N





T-1¾ Midget Groove Base

AT604 Incandescent 6-, 14-, or 28-volt; AT604N Neon 110-volt	E	G	L	* N
Voltage V	6V AC	14V AC	28V AC	110V AC
Current I	200mA	80mA	40mA	1.5mA
Endurance Average Hours	1,000	750	1,000	10,000
Ambient Temperature Range	−20°C ~ +50°C			

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



No Lamp

Code 0 indicates that no lamp is used with the solid or design caps.