

General Specifications

Electrical Capacity (Resistive Load)

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

Other Ratings

Contact Resistance: 50 milliohms maximum
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 and case for 1 minute minimum
Mechanical Life: 500,000 operations minimum
Electrical Life: 50,000 operations minimum for 3A @ 125V/250V AC & 3A @ 30V DC
 100,000 operations minimum for 1A @ 125V/250V AC & 1A @ 30V DC
Nominal Operating Force: 1.5N for Single Pole; 3.0N for Double Pole
Contact Timing: Nonshorting (break-before-make)
Travel: Total Travel .118" (3.0mm)

Materials & Finishes

Actuator: Polycarbonate
Housing: Bushing mount: Glass fiber reinforced polyamide (UL94V-0);
 Snap in mount: Polyphenylene ether (UL94V-0)
Base: Diallyl phthalate (UL94V-0)
Movable Contact: Phosphor bronze & silver with silver plating
Stationary Contacts: Common terminal: Phosphor bronze with silver plating;
 Contact terminals: Phosphor bronze with tin & copper plating
Lamp Terminals: Phosphor bronze with tin and copper plating

Environmental Data

Operating Temperature Range: -10°C through +50°C (+14°F through +122°F) for Illuminated
 -25°C through +70°C (+13°F through +158°F) for Nonilluminated
Humidity: 90 ~ 95% humidity for 240 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)

Installation

Mounting Torque: 0.8Nm (7.08 lb•in)
Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.
Cleaning: Hand clean locally with alcohol based solution

Standards & Certifications

Flammability Standards: UL94V-0 housing & base
UL: File No. E44145 - Recognized only when ordered with marking on switch.
 Add "/U" or "/CUL" to end of part number to order UL recognized switch.
 All single & double pole models recognized at 3A @ 125V/250V AC or 3A @ 30V DC.

Distinctive Characteristics

Environmentally friendly components and packaging materials meet RoHS Directive restricting use of hazardous materials. Suited for lead-free soldering because of heat resistant resin materials.

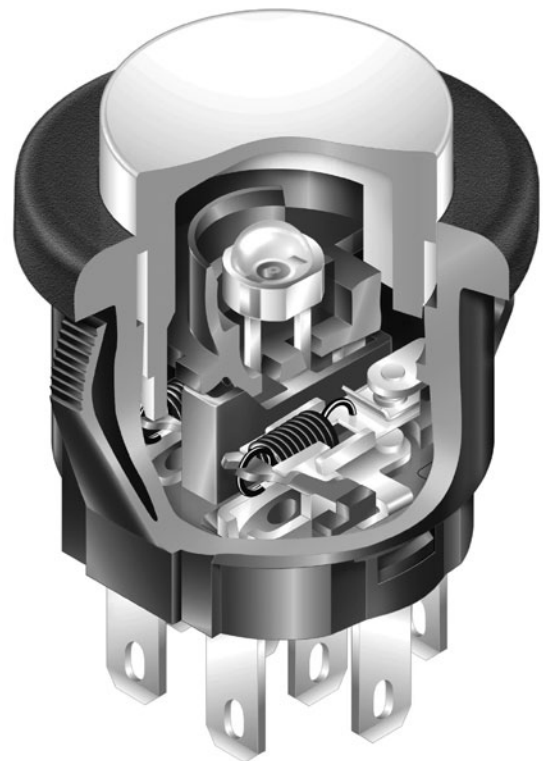
Smooth, slightly concave surface of cap designed to fit fingertip. Unique design and construction of cap prevents its removal and limits tampering.

Bright LED illumination in choice of red, green, or amber through translucent white cap.

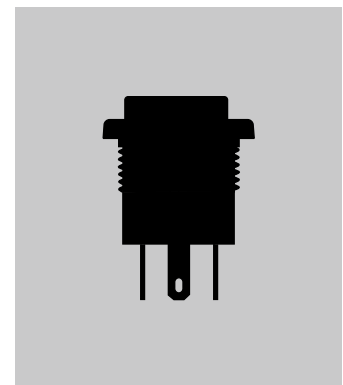
Short body of .551" (14.0mm) conserves behind-panel space.

Combination solder lug and .110" quick connect terminals.

Crisp actuation and clear circuit status provided by snap-action contact mechanism. Arc barrier between movable contacts protects against crossover.



Actual Size



TYPICAL SWITCH ORDERING EXAMPLE

LP01

1

5

C

C

K

W01

5C

B

Poles

1	SPDT
2	DPDT

Mounting Types

C	Bushing
M	Snap-in

Contacts & Terminals

W01	Silver Rated 3A @ 125V AC/250V AC Solder Lug/ Quick Connect Terminals*
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Circuit

5	ON	(ON)
() = Momentary		

Housing

K	Black
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LEDs

5C	Red
5D	Amber
5F	Green

Cap Color

B	White
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IMPORTANT:



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.

Nonilluminated

No Code	Nonilluminated
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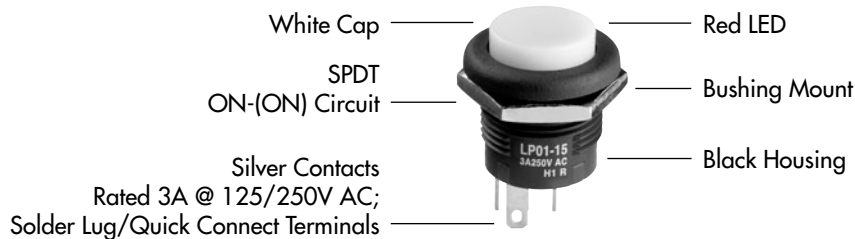
Nonilluminated Cap Colors

A	Black
C	Red
F	Green

* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

LP0115CCKW015CB



POLES & CIRCUIT

Pole	Model	Plunger Position () = Momentary		Connected Terminals		Throw & Power/Lamp Schematics
		Normal	Down	Normal	Down	
SP	LP0115	ON	(ON)	1-3	1-2	SPDT Note: Terminal markings "COM, NO, NC, L, + and -" are actually on the switch; terminal numbers are not on the switch.
DP	LP0125	ON	(ON)	1-3 4-6	1-2 4-5	DPDT

MOUNTING TYPES

C

Bushing

.630" (16.0mm) Diameter

This mounting option is supplied with a brass hexagon nut with nickel plating.



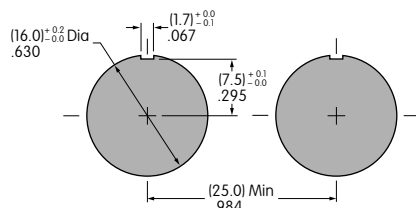
M

Snap-in

.669" (17.0mm) Diameter

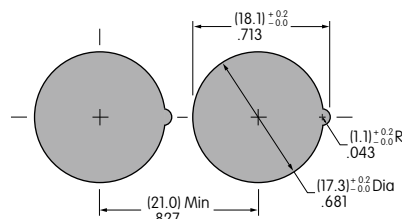


Recommended Panel Thickness:
.079" ~ .256"
(2.0mm ~ 6.5mm)



Allow .984" (25.0mm) distance from center-to-center between switches when mounted side-by-side.

Recommended Panel Thickness:
.039" ~ .126"
(1.0mm ~ 3.2mm)



Allow .827" (21.0mm) distance from center-to-center between switches when mounted side-by-side.

HOUSING

K

Black

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

CONTACT MATERIALS, RATINGS, & TERMINALS

W01

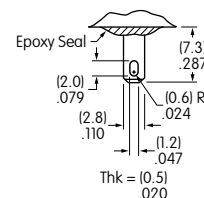
Silver

Power Level

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

3A @ 125V AC/250V AC; 3A @ 30V DC

Note: If used at 1A @ 125V AC/250V AC or 1A @ 30V DC, electrical life will be 100,000 operations minimum.



LED COLORS & SPECIFICATIONS

The electrical specifications shown are determined at a basic temperature of 25°C. LED circuit is isolated and requires external power source. Polarity marks are on the switch. 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.

LEDs are an integral part of the switch and are not available separately.	Single Color LED with 1 Element 	Colors	5C Red	5D Amber	5F Green
	Forward Peak Current	I_{FM}	30mA	30mA	30mA
	Typical Forward Current	I_F	20mA	20mA	20mA
	Forward Voltage	V_F	1.95V	2.0V	2.1V
	Reverse Peak Voltage	V_{RM}	5V	5V	5V
	Current Reduction Rate Above 25°C	ΔI_F	0.41mA/°C	0.29mA/°C	0.39mA/°C
	Ambient Temperature Range		-10°C ~ +50°C		

No Code

No Lamp

CAP COLORS

Illuminated Cap

Cap Color Available:



White

The translucent cap is an integral part of the switch and is not available separately.

Material: Polycarbonate

Finish: Matte



Nonilluminated Caps

Cap Colors Available:



Black



Red



Green

The cap is an integral part of the switch and is not available separately.

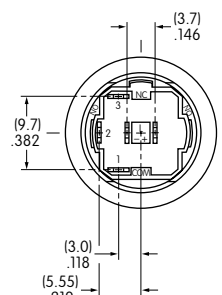
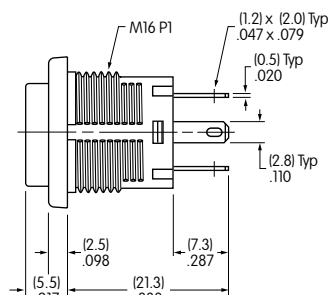
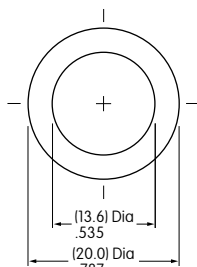
Material: Polycarbonate

Finish: Matte



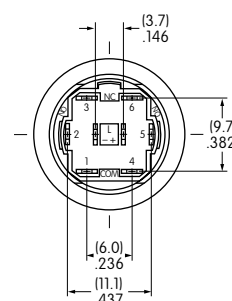
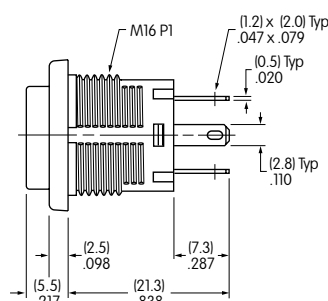
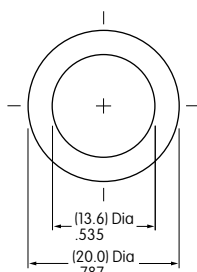
TYPICAL SWITCH DIMENSIONS

Bushing Mount • Single Pole



LP0115CCKW015CB

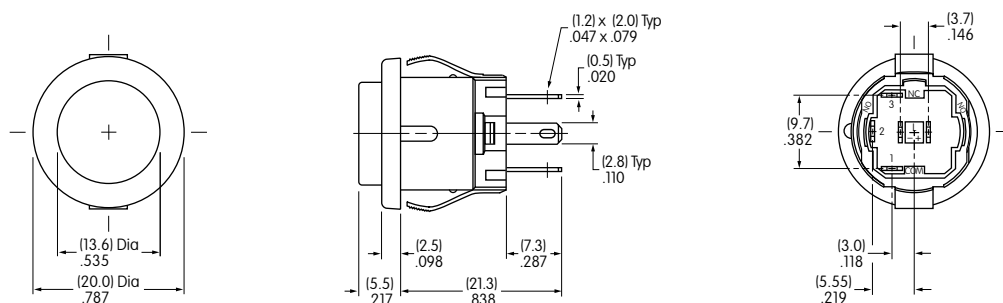
Bushing Mount • Double Pole



LP0125CCKW015CB

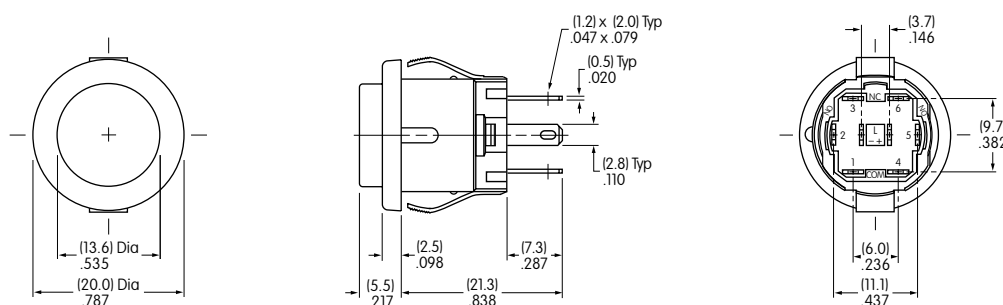
TYPICAL SWITCH DIMENSIONS

Snap-in • Single Pole



LP0115CMKW015CB

Snap-in • Double Pole



LP0125CMKW015DB

LEGENDS

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

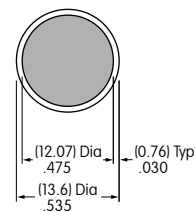
Suggested Printable Area for LP01 Cap



Recommended Methods:

Pad Print or Laser Etch on cap.

Epoxy based ink is recommended.



Shaded area is printable area

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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