General Specifications

Electrical Capacity (Resistive Load)

Power Level: 6A @ 125V AC or 3A @ 250V AC

Other Ratings

Contact Resistance: 10 milliohms maximum

Insulation Resistance: 1,000 megohms minimum @ 500V DC

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

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

Mechanical Life: 50,000 operations minimum **Electrical Life:** 25,000 operations minimum **Contact Timing:** Nonshorting (break-before-make)

Total Travel: .087" (2.2mm)

Materials & Finishes

Polyamide (UL94V-0) **Actuator:**

Frame: Stainless steel

Case: Glass fiber reinforced diallyl phthalate resin (UL94V-0)

Movable Contacts: Silver alloy

Stationary Contacts: Silver capped copper with silver plating

Terminals: Copper or brass with silver plating

Environmental Data

Operating Temp Range: -15°C through +60°C (+5°F through +140°F)

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

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

Processing

Wave Soldering Recommended (PC version): See Profile A in Supplement section. Soldering Time & Temp:

> Manual Soldering: See Profile A in Supplement section. Note: Lever must be in center position while soldering.

Cleaning: These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards: UL94V-0 rated actuator & case

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Distinctive Characteristics

Bright, LED illumination at top of actuator.

Over-center actuator block and plunger design gives crisp actuation, diminishes sparking, and increases operating life.

Guide interlocked with actuator block prevents window locking and maintains correct plunger alignment to assure contact stability.

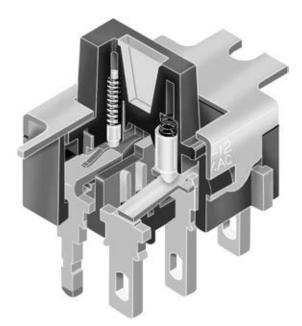
Antijamming design protects contacts from damage due to excessive downward force on the actuator.

High internal barriers between poles and insulating sheet between case and actuator block give added protection to contacts.

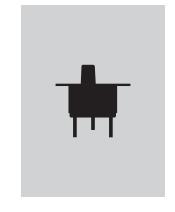
Prominent external insulating barriers increase insulation resistance and dielectric strength.

Epoxy sealed terminals prevent entry of flux, solvents, and other contaminants.

Clinching of frame to case well above base and terminals provides 1,500V dielectric strength.







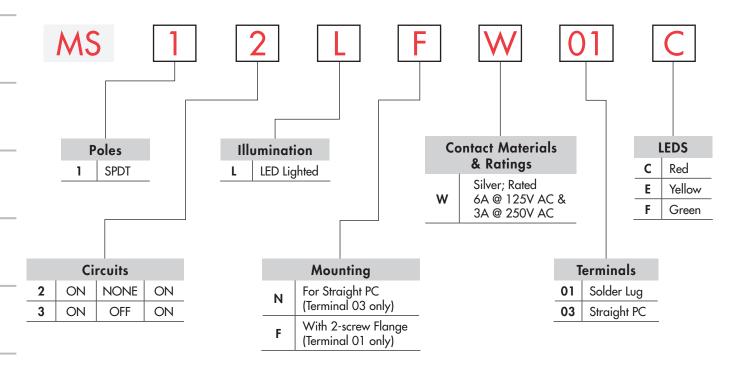


Slides H

Touch

Supplement | Accessories

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

MS12LFW01C



	POLES & CIRCUITS												
		Slide Position			Connected Terminals			Throw & Schematics					
		Left	Center	Right	Left	Center	Right	Note:	Terminal numbers are not actually on				
Pole	Model	_	_	_	_	_	_		the switch. LED circuit is isolated and requires an external connection.				
SP	MS12	ON	NONE	ON	2-1	OPEN	2-3	SPDT	2 (COM)				
	MS13	ON	OFF	ON					3 4 6				

CONTACT MATERIALS & RATINGS

Silver over Silver

6A @ 125V AC & 3A @ 250V AC



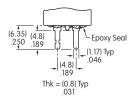
Power Level

MOUNTING TYPES & TERMINALS

Straight PC Mount (Combines with **Straight PC Terminal** 03 only)



Straight PC

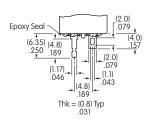


2-screw Flange (Combines with Solder Lug Terminal 01 only)



01

Solder Lug



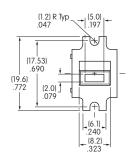
LED COLORS & SPECIFICATIONS

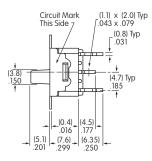
LEDs are supplied as an integral part of the switch (not available separately). The lamp circuit is independent of switch operation. Electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula given in the Supplement.

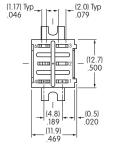
(+)0	Color	C Red	E Yellow	F Green
Maximum Forward Current	I _{FM}	30mA	30mA	30mA
Typical Forward Current	I _F	16mA	16mA	16mA
Forward Voltage	$V_{\rm F}$	1.98V	2.05V	1.95V
Maximum Reverse Voltage	$V_{_{RM}}$	5V	5V	5V
Current Reduction Rate Above 25°C	$\Delta I_{_{\rm F}}$	0.40mA/°C	0.40mA/°C	0.40mA/°C
Ambient Temperature Range	−15° ~ +60°C			

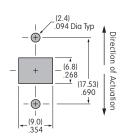
TYPICAL SWITCH DIMENSIONS

Solder Lug Terminals









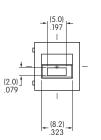


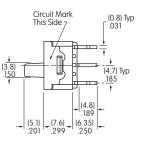
Actuator in LEFT Position

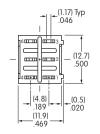
Maximum Panel Thickness .197" (5.0mm)

MS12LFW01C

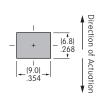
Straight PC Terminals













Actuator in LEFT Position

Maximum Panel Thickness .197" (5.0mm)

MS12LNW03C

