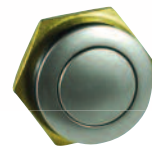


## Series 57M-EM

### 16MM MINIATURE PANEL SEALED METAL

The 57M is a miniature switch designed for rugged environments. The housing is zinc alloy with velour chrome plating. It is available as maintained or momentary action, Electro-mechanical operation with Gold plated contacts and solder terminals. It is ideal for a multitude of applications.



ACTUAL SIZE

### APPLICATIONS

- Security Equipment
- Industrial Control
- Medical Equipment
- Military Equipment
- Food Processing
- Transportation
- Computers

### KEY FEATURES:

- Zinc Alloy/Velour Chrome Plated
- Center Spot LED and Non-Lighted Versions
- Maintained or Momentary Action
- Panel Sealed to IP67
- RoHS Compliant
- Electro-Mechanical
- Gold Plated Contacts and Terminals

### ORDERING INFORMATION:

#### SWITCH FUNCTION:

1. MECHANICAL, MOMENTARY, SOLDER TERMINAL
2. MECHANICAL, MAINTAINED, SOLDER TERMINAL
5. MECHANICAL, MOMENTARY, PC TERMINAL
6. MECHANICAL, MAINTAINED, PC TERMINAL
- A. MECHANICAL, MOMENTARY, WIRE LEADS
- B. MECHANICAL, MAINTAINED, WIRE LEADS
9. SPECIAL, DIGITS ARE IN SERIAL ORDER

#### HOUSING MATERIAL:

1. ZINC ALLOY, VELOUR CHROME PLATED
2. ZINC ALLOY, MIRROR BLACK

#### ILLUMINATION †:

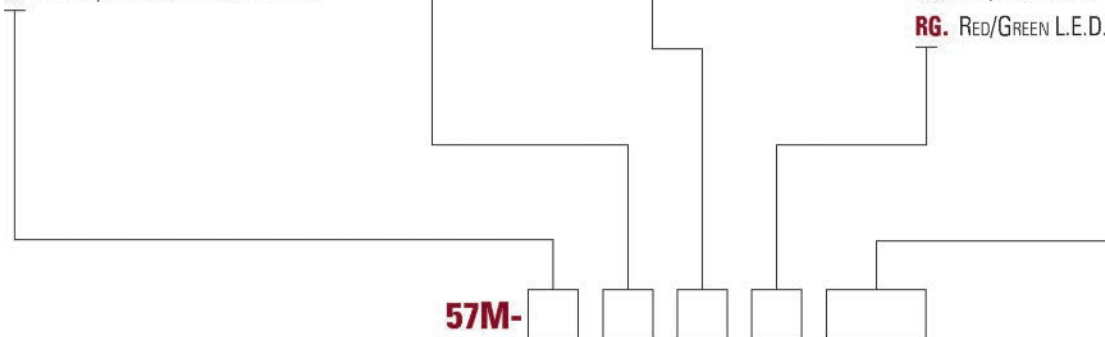
0. NON-LIT
1. CENTER SPOT ILLUMINATION
2. RING ILLUMINATION
3. STANBY LOGO ILLUMINATION

#### LED COLOR:

- N. NONE
- G. GREEN L.E.D.
- R. RED L.E.D.
- A. AMBER L.E.D.
- B. BLUE L.E.D.
- W. WHITE L.E.D.
- RB. RED/BLUE L.E.D.
- RG. RED/GREEN L.E.D.

#### VOLTAGE RESISTOR

- IF BLANK \*
- 05 5V FORWARD
- 12 12V FORWARD \*\*
- 24 24V FORWARD \*\*

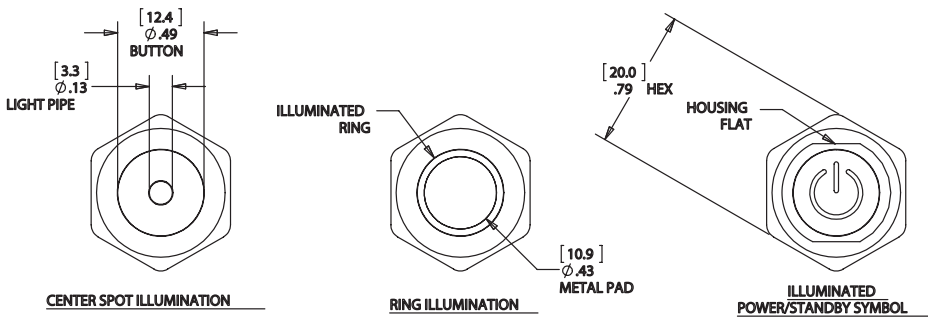
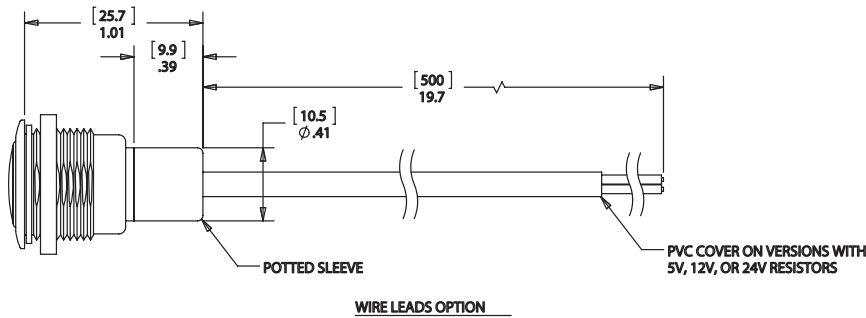
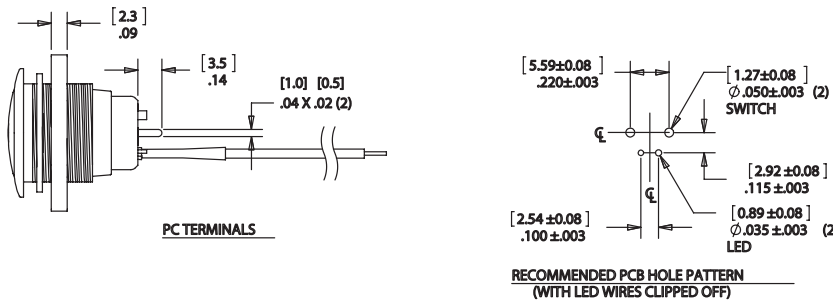
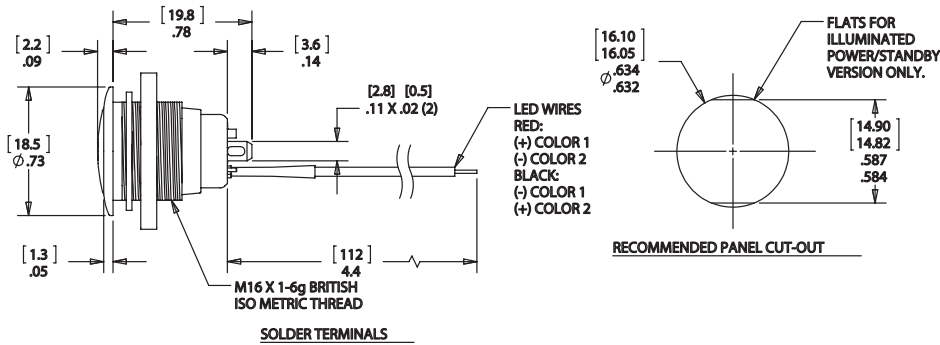


† Lighted switches come with wires on LEDs to protect from solder heat.  
 \* Current limiting resistor is required to limit LED forward current to 20 mA (not included).  
 \*\* 12 and 24 V resistors are available with wirelead versions only.

### STANDARDS / AGENCY / RATINGS:



## PRODUCT DRAWINGS



[MILLIMETERS]  
INCHES

## MECHANICAL CHARACTERISTICS

**CIRCUIT:**  
SPST-NO-DB (FORM X)

**BUTTON TRAVEL (NOM):**  
[2.3] .09

**OPERATING FORCE (NOM):**  
[3N] 306g

**CONTACT BOUNCE (NOM):**  
1 ms

**PANEL THICKNESS:**  
[0.0 to 6.0] .00 to .24

**NUT TORQUE (MAX):**  
[11.5 kgf/cm] 10 lb/in

## HARDWARE:

BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

## ENVIRONMENTAL SPECIFICATIONS

**ACTUATOR INGRESS PROTECTION:**  
IP67

**OPERATING TEMPERATURE:**  
NON-LIT: [-40 C to +85 C]  
-40 F to +185 F  
ILLUMINATED: [-25 C to +85 C]  
-13 F to +185 F

## ELECTRICAL SPECIFICATIONS

**CURRENT RATING (resistive):**  
250mA @ 12VDC, 100K CYCLES  
150mA @ 28VDC, 150K CYCLES (MOMENTARY)  
100mA @ 48VDC, 100K CYCLES  
10mA @ 12VDC, 1 MILLION CYCLES (MOMENTARY)

**DIELECTRIC STRENGTH:**  
1,000 VAC

**INSULATION RESISTANCE:**  
1G OHM

**CONTACT RESISTANCE:**  
50m OHMS

**WIRE LEADS:**  
UL STYLE 1007  
26 AWG, STRANDED

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