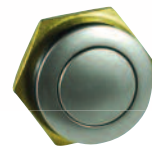


Series 57M-EM

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 †:

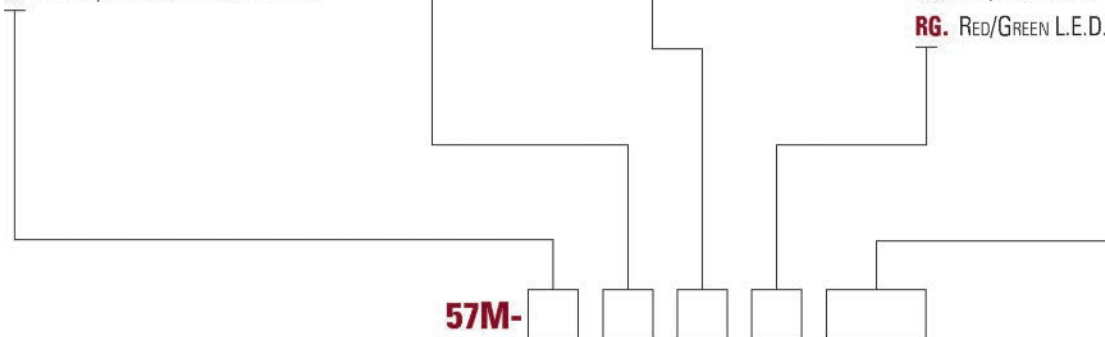
0. NON-LIT
1. CENTER SPOT ILLUMINATION
2. RING ILLUMINATION
3. STANBY LOGO ILLUMINATION

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 **

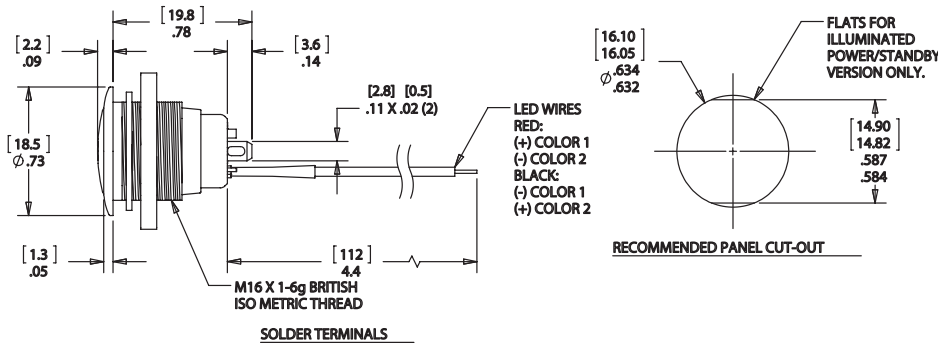


† Lighted switches come with wires on LEDs to protect from solder heat.
 * Current limiting resistor is required to limit LED forward current to 20 mA (not included).
 ** 12 and 24 V resistors are available with wirelead versions only.

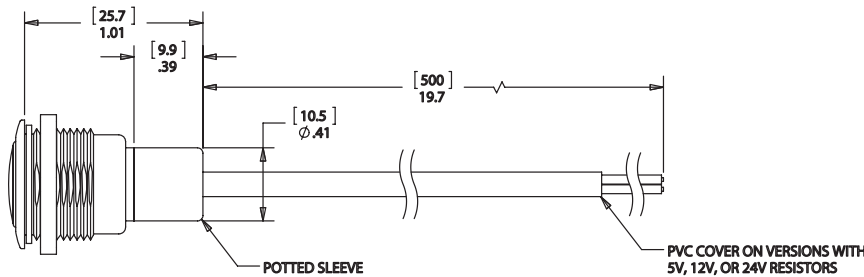
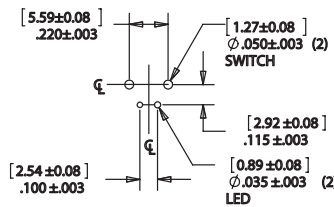
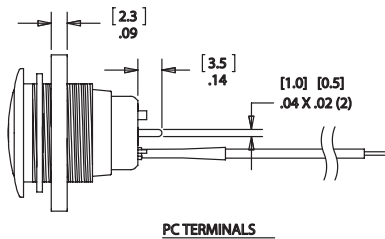
STANDARDS / AGENCY / RATINGS:



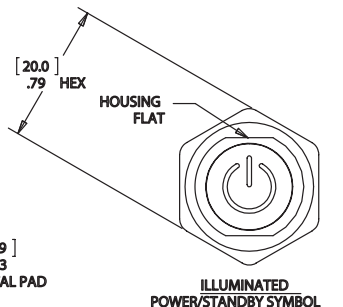
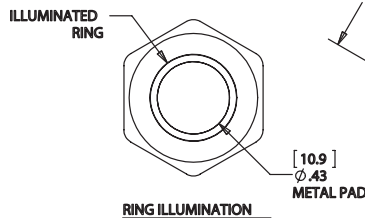
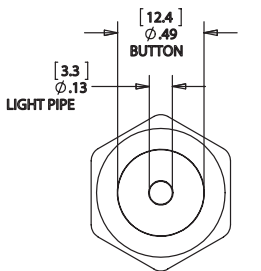
PRODUCT DRAWINGS



RECOMMENDED PANEL CUT-OUT



WIRE LEADS OPTION



[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