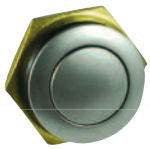
Series 57M-EM

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 **

57M- ☐ ☐ ☐ ☐ ☐

† 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).

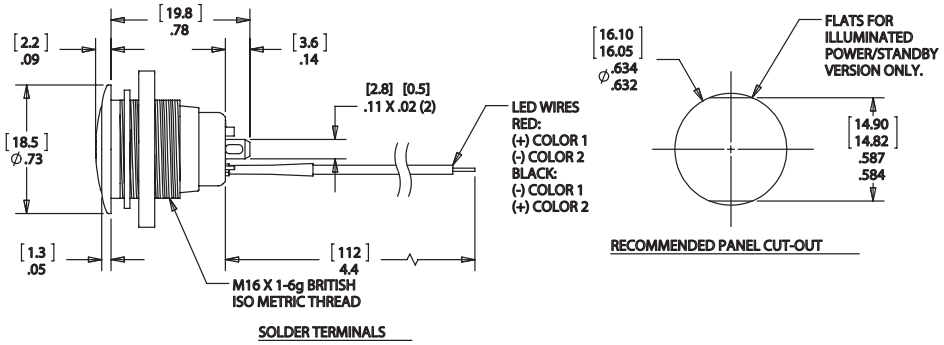
** 12 and 24 V resistors are available with wirelead versions only.

STANDARDS / AGENCY / RATINGS:

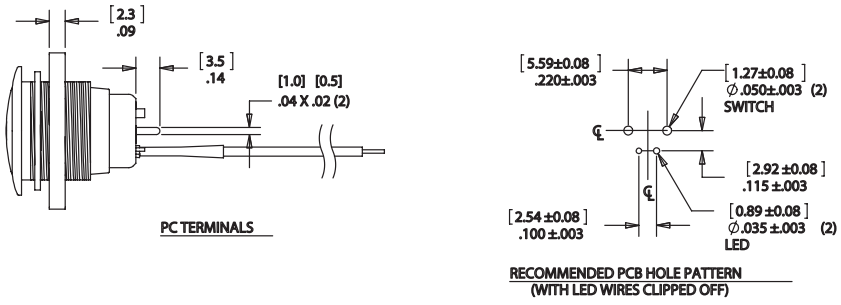
RoHS COMPLIANT 2002/95/EC

IEC IP67 COMPLIANT

PRODUCT DRAWINGS

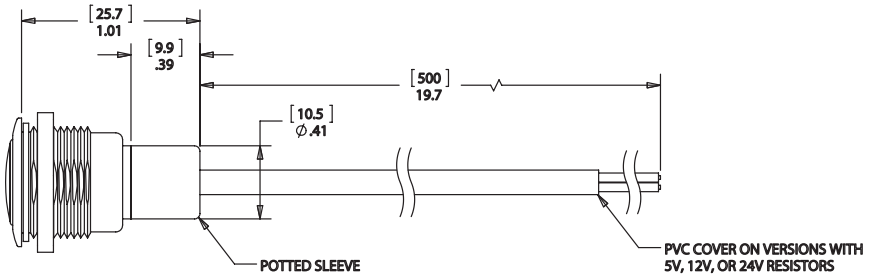


SOLDER TERMINALS

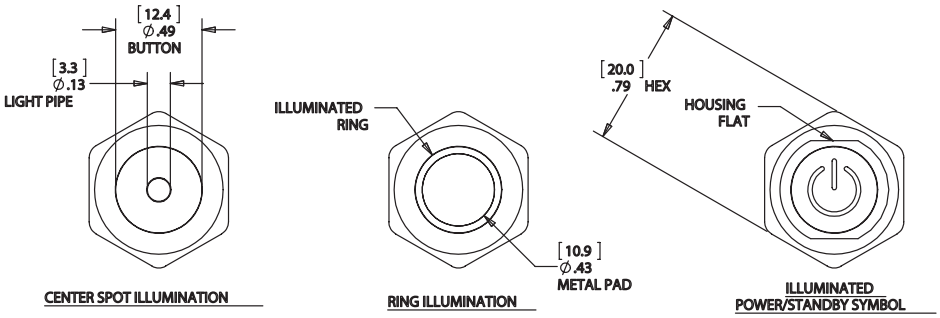


PC TERMINALS

RECOMMENDED PCB HOLE PATTERN (WITH LED WIRES CLIPPED OFF)



WIRE LEADS OPTION



CENTER SPOT ILLUMINATION

RING ILLUMINATION

ILLUMINATED POWER/STANDBY SYMBOL

[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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Designs and specifications are subject to change without notice due to product improvement.

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SENSORS, SWITCHES, ELECTRONIC CONTROLS

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