

19MM PANEL SEALED METAL ELECTRO-MECHANICAL

Built on the proven series 48 platform these rugged switches come in stainless steel or chrome plated housings with either momentary or maintained action and lighted or unlighted versions. The variety of options in this compact package size make the 48M ideal for many applications

Series 48M-EM



ACTUAL SIZE

APPLICATIONS

- Outdoor Controls
- Security Equipment
- Medical Equipment
- Food Processing Equipment
- Military Equipment
- Industrial Machinery
- Transportation: Mass-Transit, Lift Trucks

KEY FEATURES:

- Momentary or Maintained Action
- Stainless Steel Housing
- Center Spot or Ring Illumination
- Variety of LED colors
- Electro-Mechanical
- Panel Sealed to IP67
- ROHS Compliant
- Gold Plated Contact 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. STAINLESS STEEL
2. ZINC ALLOY CHROME PLATED

ILLUMINATION †:

0. NON-LIT
1. CENTER SPOT ILLUMINATION
2. RING ILLUMINATION
3. ILLUMINATED POWER SYMBOL

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 **

48M-

† 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).

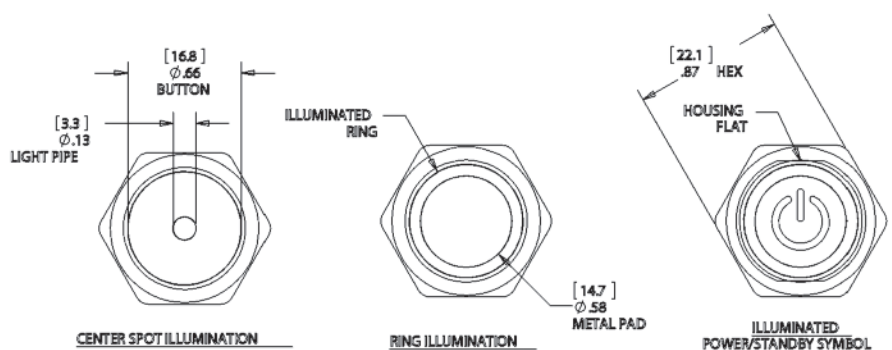
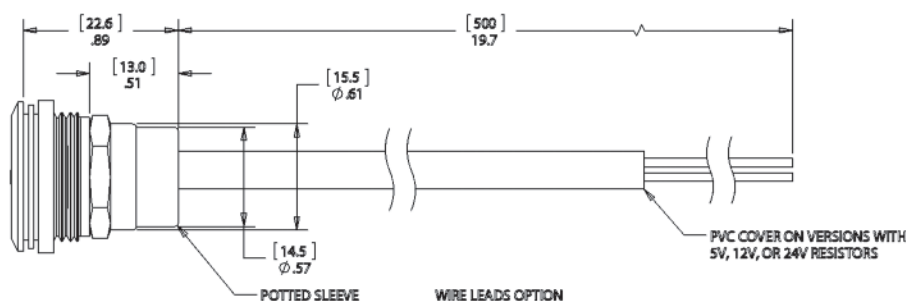
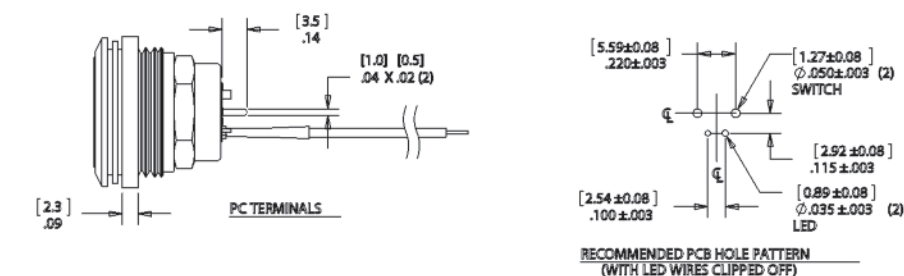
** 12 and 24 V resistors are available with wirelead versions only.

STANDARDS / AGENCY / RATINGS:



PUSHBUTTON SWITCHES

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:
[0.5 to 4.5] .02 to .18

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ITW Switches:

[48M111A](#) [48M111R](#) [48M111B](#) [48M111W](#) [48M211A](#) [48M112R](#) [48M112B](#) [48M112G](#) [48M112W](#) [48M212A](#)
[48M212G](#) [48M212W](#)