

Series 48M-EM

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



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 5V FORWARD ***
- 24 5V FORWARD ***

48M-

* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

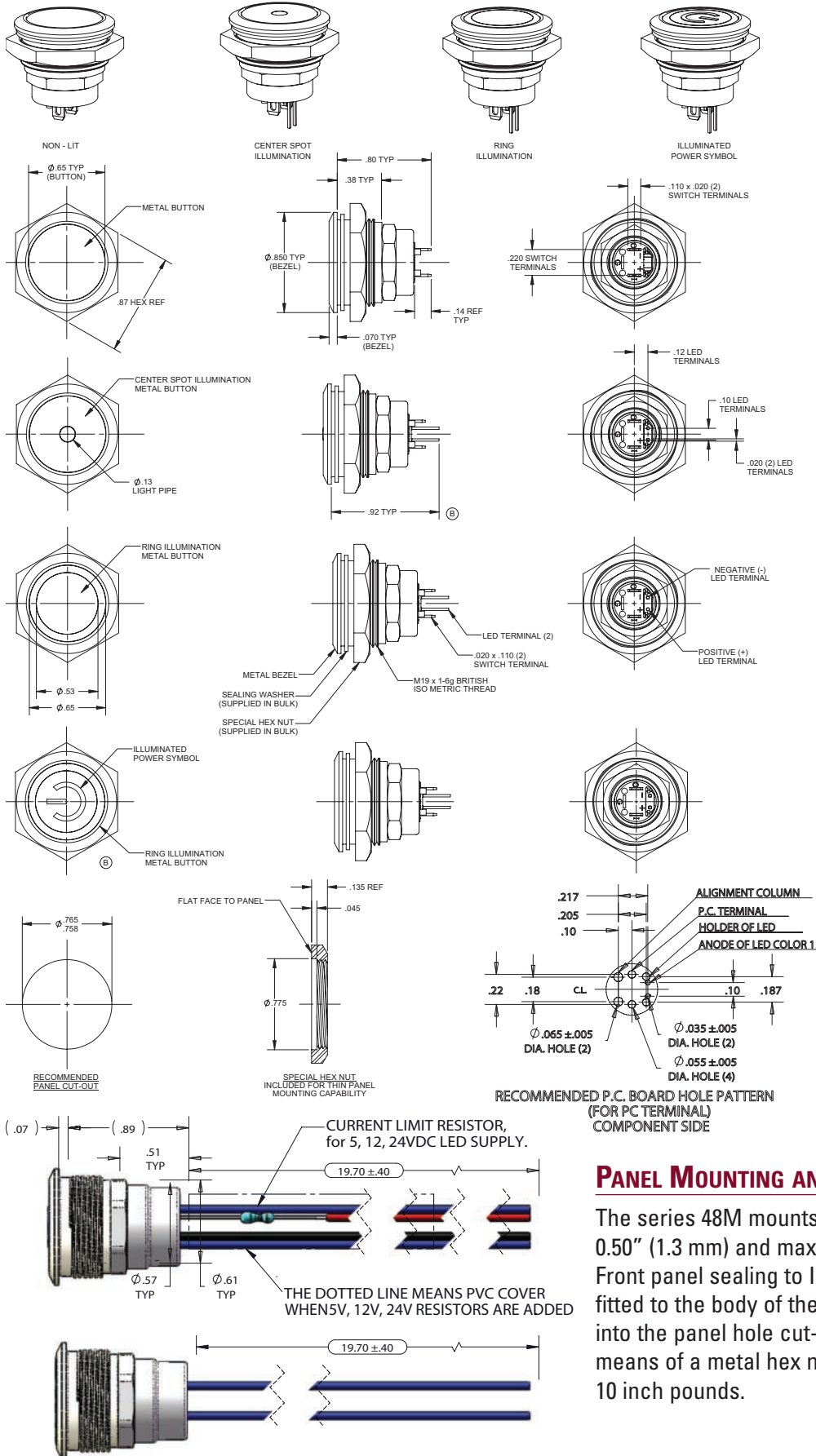
** Resistor included, jacketed leads by special request.

*** Resistor and jacketed leads included

STANDARDS / AGENCY / RATINGS:



PRODUCT DRAWINGS



MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:**
SPST-NO-DB
- Button travel (nominal):**
0.09 inches / 2.3 mm
- Operating force (nominal):**
3N / 306 grams
- Contact bounce (nominal):**
1 millisecond
- Panel thickness:**
0.50" – 0.150" 1.3 – 3.8mm
- Temperature index:**
-40°C to +85°C
- LED operating temperature:**
-13° F to +185° F /
-25° C to +85° C
- Torque (max):**
10 inch pounds
- LED operating temperature:**
-13° F to +185° F /
-25° C to +85° C
- Current ratings (resistive):**
250mA @ 12VDC, 100K cycles
150mA @ 28VDC, 150K cycles (momentary)
100mA @ 48VDC, 100K cycles
10mA @ 12VDC, 1 million cycles (momentary)

ELECTRO-MECHANICAL

- Dielectric strength:**
1,000 VAC
- Insulation resistance:**
1 GΩ
- Contact resistance:**
50 mΩ max (initial)

PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 48M mounts easily into panels of minimum 0.50" (1.3 mm) and maximum 0.150" (3.8 mm) thickness. Front panel sealing to IP67 is achieved by a sealing o-ring fitted to the body of the switch before it is inserted into the panel hole cut-out. It is held onto the panel by means of a metal hex nut tightened down to a torque of 10 inch pounds.