

SERIES 57M



Miniature Panel Sealed Metal Pushbutton Switches

The 57M is a miniature, rugged vandal resistant switch. The housing is zinc alloy with velour chrome plating. It is available as maintained or momentary action, Electro-mechanical or solid-state, with PC or solder terminals. It is ideal for a multitude of applications.

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 or Solid-State (Hall Effect)

ORDERING INFORMATION:

SWITCH FUNCTION:

1. MECHANICAL, MOMENTARY, SOLDER TERMINAL
2. MECHANICAL, MAINTAINED, SOLDER TERMINAL
3. SOLID STATE, MOMENTARY, SOLDER TERMINAL
4. SOLID STATE, MAINTAINED, SOLDER TERMINAL
5. MECHANICAL, MOMENTARY, P.C. TERMINAL
6. MECHANICAL, MAINTAINED, P.C. TERMINAL
7. SOLID STATE, MOMENTARY, P.C. TERMINAL
8. SOLID STATE, MAINTAINED, P.C. TERMINAL
9. SPECIAL, FOLLOWING DIGITS ARE IN SERIAL ORDER

HOUSING MATERIAL:

1. ZINC ALLOY, VELOUR CHROME PLATED

ILLUMINATION:

0. NON-LIT
1. CENTER SPOT ILLUMINATION

LED COLOR:

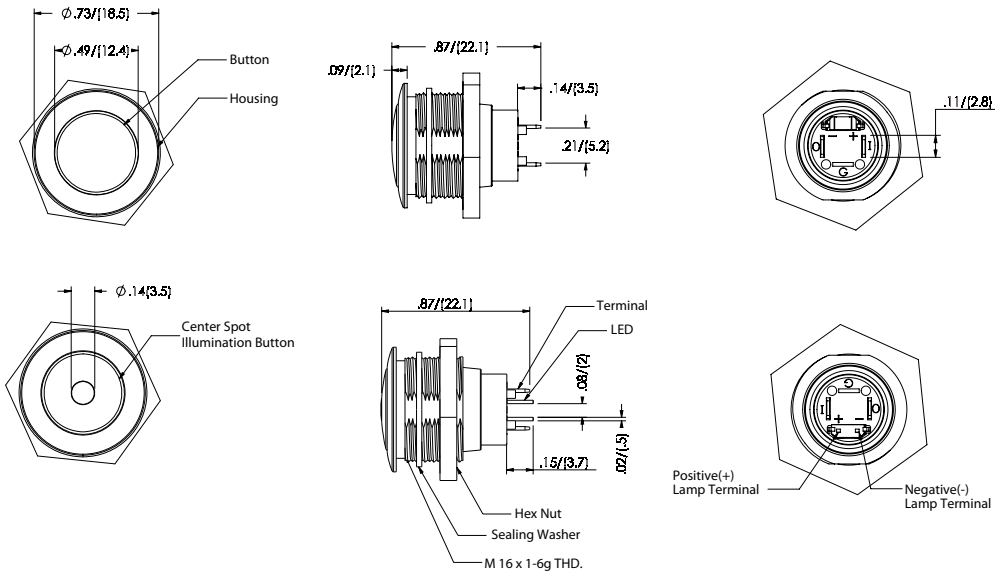
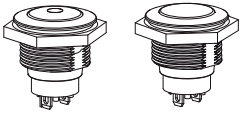
- N. NONE
- G. GREEN L.E.D.
- R. RED L.E.D.
- A. AMBER L.E.D.
- B. BLUE L.E.D.
- W. WHITE L.E.D.

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STANDARDS / AGENCY / RATINGS:



SERIES 57M—MINIATURE PANEL SEALED METAL PUSHBUTTON



MECHANICAL / ELECTRICAL CHARACTERISTICS:

Circuit:

SPST-NO-DB

Button travel (nominal):

0.09" / 2.3 mm

Life (mechanical):

500,000 cycles max

(momentary)

100,000 cycles max

(maintained)

Operating force (nominal):

3N/306g

Contact bounce (nominal):

1 ms

Panel thickness:

0.03" – 0.118" (0.8 – 3mm)

Temperature index:

-40°C to + 85°C

Torque (max):

10 inch pounds

ELECTRO-MECHANICAL

Current ratings:

400mA, 32 VAC Res.

100 mA, 50 VDC Res.

125mA, 125 VAC Res.

Dielectric strength:

1,000 VAC

Insulation resistance:

1G OHM

Contact resistance:

50m OHMS max (initial)

SOLID-STATE (HALL-EFFECT)

Supply voltage:

4.2V to 24V, 26.5 Max.

Supply current:

B<Brp, Vcc=12V: 3mA Typ.

To 8mA Max.

B>Bop, Vcc=12V: 4mA Typ.

To 8mA Max.

Output current:

30 to 50 mA

Reverse battery voltage:

-30V Max.

Reverse battery current:

-5V Max.

PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 57M mounts easily into panels of minimum 0.03" (0.8mm) and maximum 0.118" (3mm) thicknesses. Front panel sealing to IP67 is achieved by a sealing washer which is fitted to the body of the switch before it is inserted into the panel hole cutout. It is held onto the panel by means of a brass hex nut tightened down to a torque of 10 inch pounds to achieve the correct sealing pressure.

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