Try Switches

SERIES 48M

www.itwswitches.com 800.544.3354



Panel Sealed Metal Pushbutton Switches

Built on the proven series 48 platform these rugged vandal resistant switches come in stainless steel or chrome plated zinc housings, electro-mechanical or solid-state, momentary or maintained action, lighted or unlighted versions. The variety of options in this compact package size make the 48M ideal for many applications: outdoor controls, security products, food processing and medical products.

KEY FEATURES:

- Momentary or Maintained Action
- Stainless Steel or Chrome Plated Zinc Housing
- Center Spot or Ring Illumination
- Variety of LED colors

- Electro-Mechanical or Solid-State (Hall Effect)
- Panel Sealed to IP67
- ROHS Compliant

APPLICATIONS

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

ORDERING INFORMATION:

HOUSING MATERIAL: LED COLOR: **SWITCH FUNCTION:** ILLUMINATION: 1. MECHANICAL, MOMENTARY, SOLDER TERMINAL **1.** STAINLESS STEEL 0. Non-lit N. None 2. Mechanical, Maintained, Solder Terminal 2. CHROME PLATED **1.** CENTER SPOT ILLUMINATION G. GREEN L.E.D. 3. SOLID STATE, MOMENTARY, SOLDER TERMINAL ZINC ALLOY 2. RING ILLUMINATION **R.** RED L.E.D. 4. Solid State, Maintained, Solder Terminal A. Amber L.E.D. 5. MECHANICAL, MOMENTARY, P.C. TERMINAL B. BLUE L.E.D. 6. MECHANICAL, MAINTAINED, P.C. TERMINAL W. WHITE L.E.D. 7. SOLID STATE, MOMENTARY, P.C. TERMINAL 8. Solid State, Maintained, P.C. Terminal 9. Special, Following digits are in serial order 48M-

. RoHS

STANDARDS / AGENCY / RATINGS:



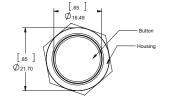
FLEX-TECH—Low Current Series

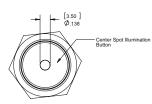
Series 48M—Panel Sealed Metal Pushbutton

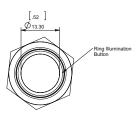


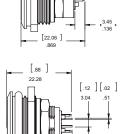






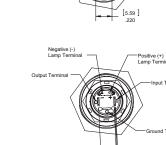






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[5.59

220

PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 48M mounts easily into panels of minimum 0.03" (0.8mm) and maximum 0.118" (3mm) 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 brass hex nut tightened down to a torque of 10 inch pounds to achieve the correct sealing pressure.

M19 x 1-6g Thread



2550 Millbrook Drive Buffalo Grove, IL 60089 800.544.3354 847.876.9400 847.876.9440 (Fax) www.itwswitches.com customer_service@itwswitches.com

MECHANICAL / ELECTRICAL CHARACTERISTICS:

Circuit:

2.79

[0.51] .020 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.