## Pushbution Switches

## 19mm Panel Sealed Metal Electro-Mechanical

## Series 48M-EM

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 48 M ideal for many applications

## 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:






Product Drawings


WIRE LEADS OPTION


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 TOROUE (MAX):
[11.5 kgf/cm] $10 \mathrm{lb} / \mathrm{in}$
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

## ITwSwitches

Sensors, Switches, Electronic Controls

