## 12mm Miniature Sealed Electro-Mechanical

## Series 48EM

This rugged multi-option sealed pushbutton series offers the utmost in choices of mounting styles, colors, terminations, bezels, lighting and momentary or alternate-action switching. The Series 48 offers all these options in one compact package size.

## Applications

- Office equipment
- Medical equipment
- Industrial machinery
- Outdoor controls
- Mass transportation
- Food processing equipment



## Key Features:

- Momentary or maintained action
- Gold contacts
- Many button colors
- Choice of LED colors (or non-lighted versions)

Ordering Information:



| $\begin{array}{l}\text { RoHS } \\ \text { compuant } \\ 202 / / \text { an } / \text { FC }\end{array}$ |
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## Product Drawings


SOLDER TERMINALS WTTH BUSHING MOUNTING

PCTEPMINALS WITH BUSHING MOUNTING $\qquad$



WIRE LERESSOPTON $5 \mathrm{~V}, 12 \mathrm{~V}$, CR 24y RESISTOR

SQUAABE REZEL



## 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:
BUSHING MOUNTING: [0.5-3.0]
.02-.12
SNAP-FIT MOUNTING: [1.3-3.0] 05-. 12
NUT TORQUE (MAX):
[11.5 kgf/cm] $10 \mathrm{lb} / \mathrm{in}$
HARDWARE
BUSHING MOUNTING: BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

## ACTUATOR INGRESS PROTECTION:

|P67
OPERATING TEMPERATURE:
[-40 C to +85 C] -40 F to +185 F
ELECTRICAL SPECIFICATIONS
CURRENT RATING (resistive):
250mA @ 12VDC, 100K CYCLES
150mA @ 28VDC, 150K CYCLES (MOMENTARY)
100 mA @ 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

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