PUSHBUTTON SWITCHES

12MM MINIATURE SEALED ELECTRO-MECHANICAL

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:

Switch Switch Module Mounting Voltage Function Termination **Bezel Type** LED Color[†] **Button Color** Resistor Туре Туре B - Bushing Momentary Solder Tabs 48-1 RB - Round, Black N - None RD - Red If Blank* 05 - 5V forward Maintained Solder Tabs 48-2 **GR** - Green SB - Square, Black R - Red S - Snap-fit PC Momentary 48-5 RC - Round, Chrome BK - Black 12 - 12V forward ** G - Green PC SC - Square, Chrome BL - Blue 24 - 24V forward ** Maintained 48-6 Y - Yellow Momentary Wire Leads 48-A A - Amber YL - Yellow Maintained Wire Leads 48-B B - Blue **OR** - Orange W - White CR - Chrome RB - Red / Blue PK - Black with RG - Red / Green Standby Symbol WH - White † Lighted switches come with wires on 48-LEDs to protect from solder heat. * Current limiting resistor is required to limit LED forward current to 20 mA (not included). ** 12 and 24 V resistors are available with **STANDARDS / AGENCY / RATINGS:** wirelead versions only. RoHS IP67

Solder, PC terminals or Wireleads

Panel sealed to IP 67

Long life





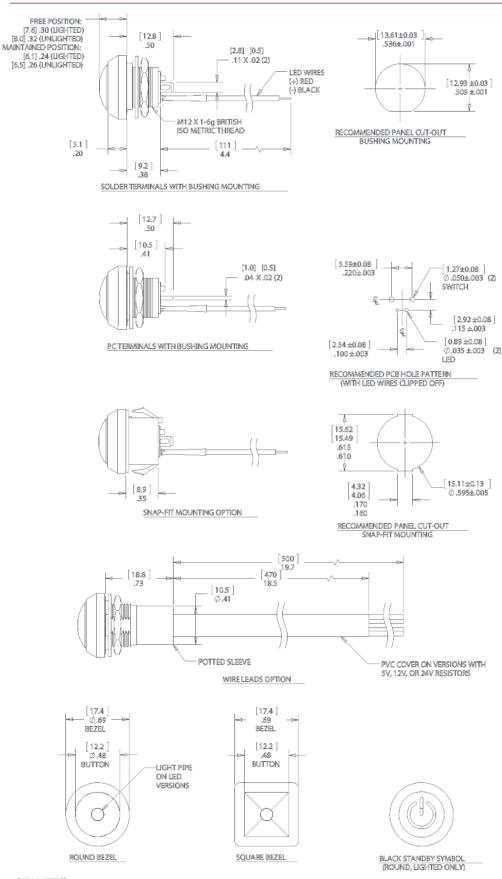
ACTUAL SIZE

www.itwswitches.com

Contact an Authorized Distributor or Factory for Pricing

SERIES 48: 12MM MINIATURE SEALED ELECTRO-MECHANICAL

PRODUCT DRAWINGS



[MILLIMETERS] INCHES

3/13

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Designs and specifications are subject to change without notice due to product improvement.

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 lb/in

HARDWARE BUSHING MOUNTING: BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

ACTUATOR INGRESS PROTECTION: IP67

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)

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



PUSHBUTTON SWITCHES

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 M7E-HRN2

 67021K512
 67081K512X
 701PB580
 7190K101
 7199K101
 810K12910
 810KSV30B
 MML21EA2ADK
 MML21KA3ABK

 MML23KA3AC05K-001
 MML23KW3AA01W
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