

SERIES 48 - 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

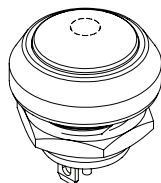


KEY FEATURES:

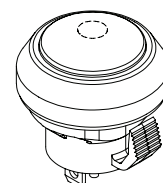
- Momentary or Maintained action
- Gold contacts (up to 1.5M cycles)
- Seven button colors
- Choice of LED colors (or non-illuminated versions)
- Solder or PC terminals
- Panel sealed to IP67 (Threaded Bush)
- Plastic bezel/ housing
- Raised button
- Snap action (see SA12 series)
- No Button Options for late dedication

PRODUCT DRAWINGS

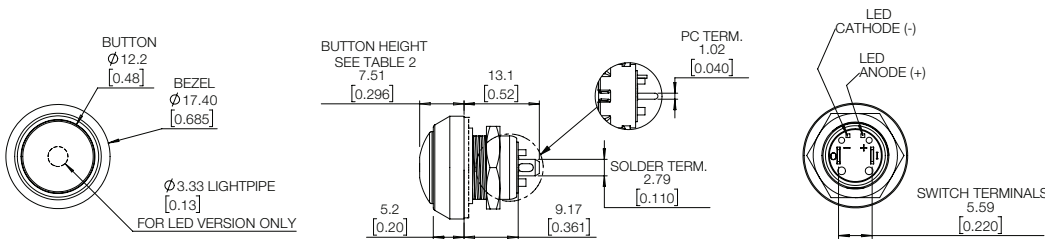
THREADED BUSH



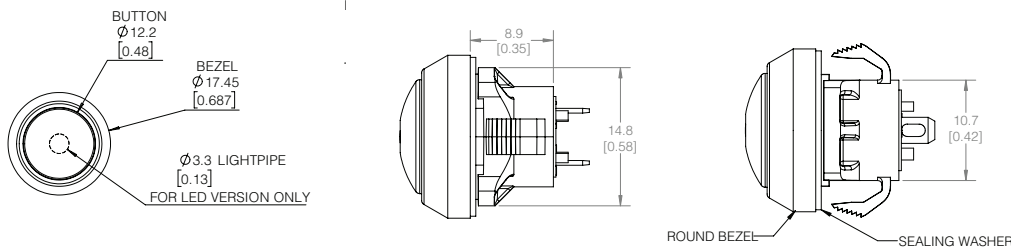
SNAP-FIT



THREADED BUSH



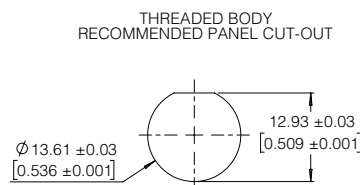
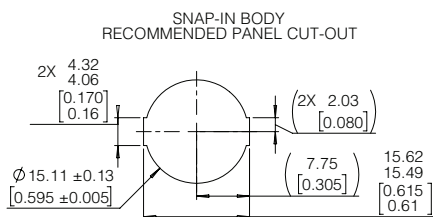
SNAP-FIT



BUTTON HEIGHT

	FREE POSITION	MAINTAINED
WITH LED	7.51 [0.296]	6.00 [0.236]
NO LED	8.19 [0.323]	6.67 [0.263]

PANEL CUT-OUT



MECHANICAL CHARACTERISTICS:

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):
[6 kgf-cm] 5.2 lb-in

Hardware:
Threaded Bush - Supplied with
Panel Seal and Hex Nut in bags
with the product packaging.

Snap-Fit - Panel Seal supplied
fitted to the switch

ENVIRONMENTAL SPECIFICATIONS

Actuator Ingress Protection:
IP67 (Threaded Bush)

Operating Temperature:
[-40°C to +85°C] -40°F to + 185°F

ELECTRICAL SPECIFICATIONS

Current Rating (resistive):

48 (Momentary)

250mA@ 12VDC, 100K Cycles
150mA@ 28VDC, 150K Cycles
100mA @ 48VDC, 100K Cycles
10mA@ 12VDC, 1.5 Million Cycles

48 (Maintained)

50K Cycles Nominal

Dielectric Strength:
1,000 VAC

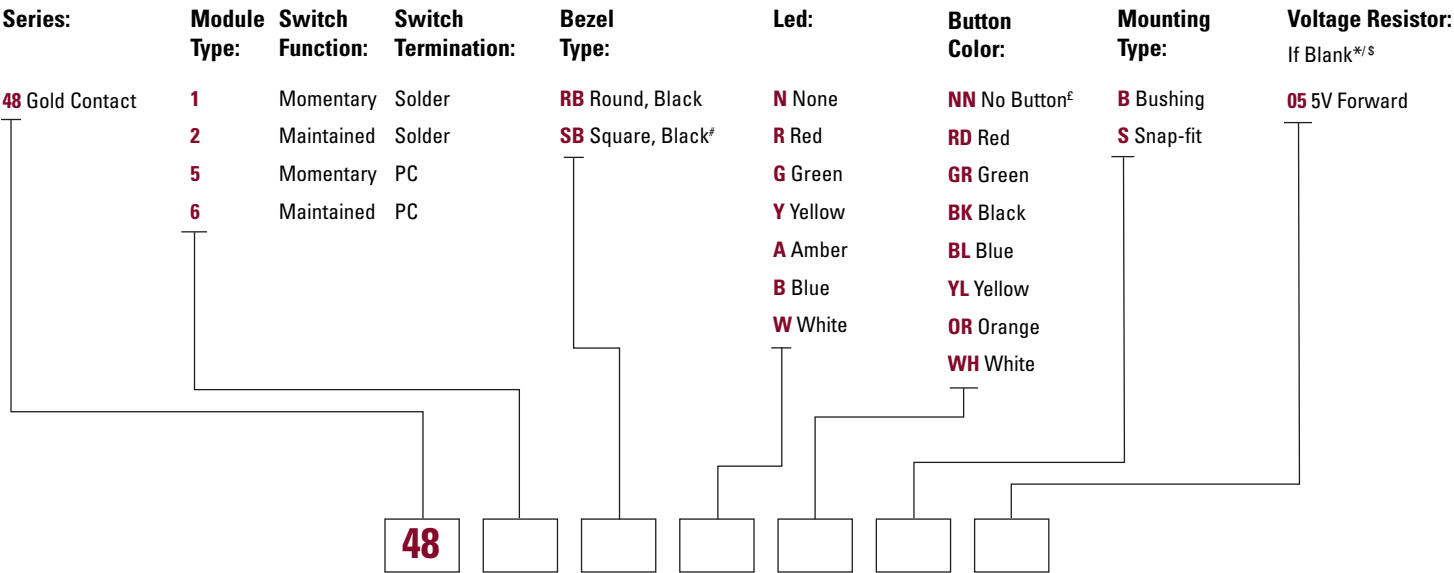
Insulation Resistance:
1G Ohm

Contact Resistance:
50m Ohms

BUTTON PART NUMBER REFERENCE:

Part No	Description
80-481013-RED	48 RED Non Illuminated Button
80-481013-GRN	48 GREEN Non Illuminated Button
80-481013-BLK	48 BLACK Non Illuminated Button
80-481013-BLU	48 BLUE Non Illuminated Button
80-481013-YLW	48 YELLOW Non Illuminated Button
80-481013-WHT	48 WHITE Non Illuminated Button
80-481013-ORG	48 ORANGE Non Illuminated Button

ORDERING INFORMATION:



* Current limiting resistor maybe required to limit LED forward current to 20mA
 \$ Other integrated LED voltages (12V and 24V) can be provided upon request depending on project volume
 # A setup charge maybe required for the Square Bezel
 £ See table above for non illuminated button colours (speak with your sales contact for Illuminated buttons)