

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:

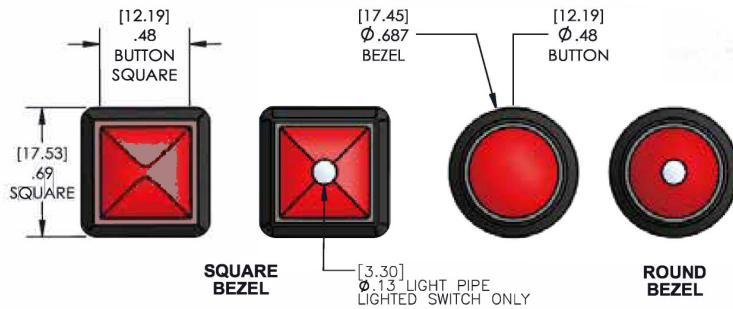
- Momentary or Maintained action
- Gold contacts
- Many button colors
- Choice of LED colors (or non-lighted versions)
- Solder, PC terminals or Wireleads
- Panel sealed to IP67
- Plastic bezel/ housing
- Raised button
- Snap action in SA12 series

ORDERING INFORMATION:

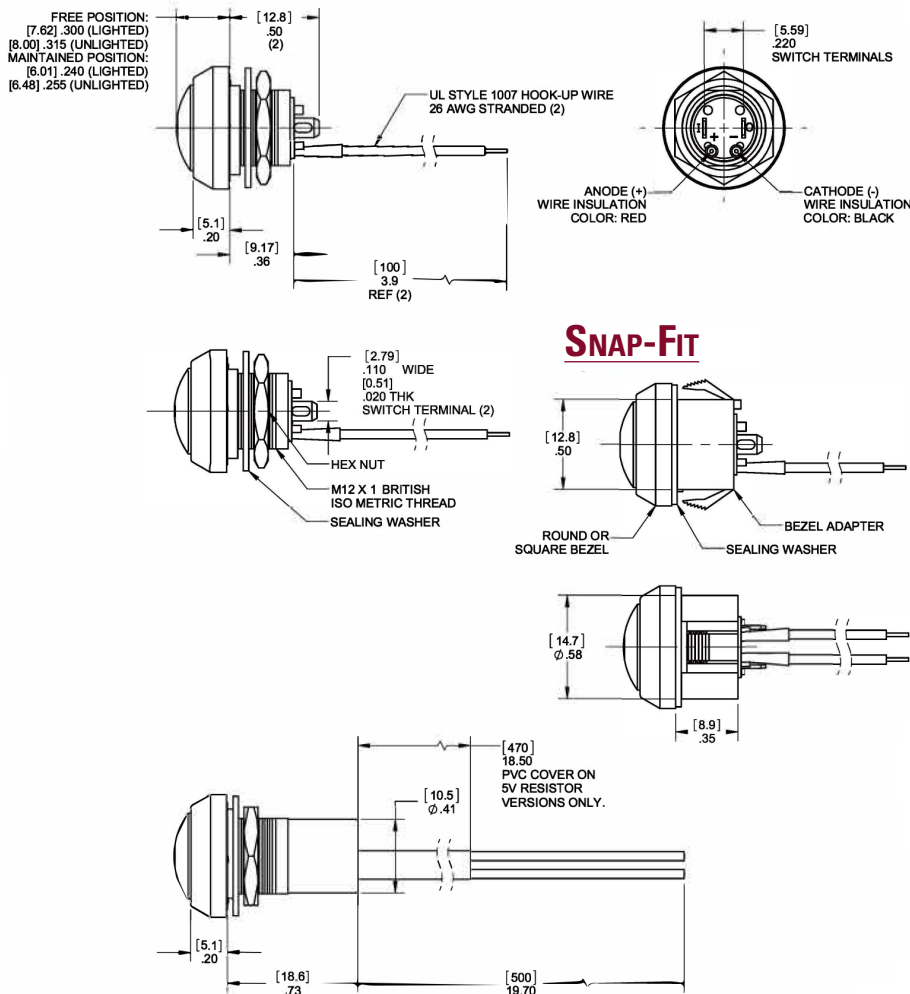
| Series: | Module Type: | Switch Function: | Switch Termination: | Bezel Type: | Led: | Button Color: | Mounting Type: | Voltage Resistor: If Blank* |
|-------------------------|--------------|------------------|---------------------|------------------|----------|---------------|----------------|--------------------------------|
| 48 Gold Contact IP67 | 1 | Momentary | Solder | RB Round, Black | N None | RD Red | B Bushing | 05 5V Forward |
| | 2 | Maintained | Solder | SB Square, Black | R Red | GR Green | S Snap-fit | 12 12V Forward |
| | 5 | Momentary | PC | | G Green | BK Black | | 24 24V Forward |
| | 6 | Maintained | PC | | Y Yellow | BL Blue | | |
| | A | Momentary | Wire Leads | | A Amber | YL Yellow | | |
| | B | Maintained | Wire Leads | | B Blue | OR Orange | | |
| | | | | | W White | WH White | | |
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* Current limiting resistor is required to limit LED forward current to 20mA (not included).

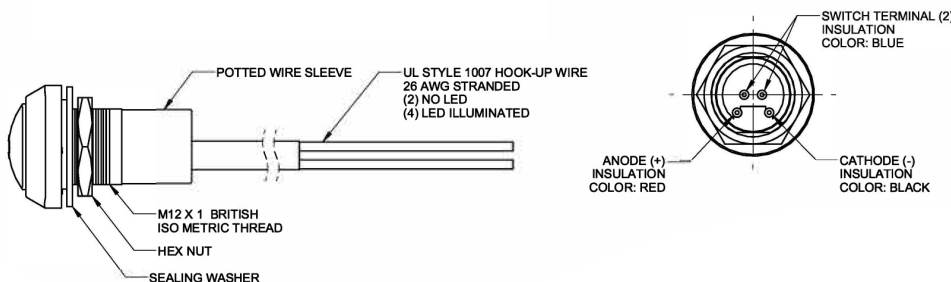
PRODUCT DRAWINGS



48 SERIES



WIRELEADS



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:
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):

48 (Momentary)

250mA@ 12VDC, 100K Cycles
150mA@ 28VDC, 150K Cycles
100mA @ 48VDC, 100K Cycles
10mA@ 12VDC, 1 Million Cycles

48 (Maintained)

50K Cycles Nominal

Dielectric Strength:
1,000 VAC

Insulation Resistance:
1G Ohm

Contact Resistance:
50m Ohms

Wire Leads:
UL STYLE 1007
26 AWG, STRANDED

ITW Switches

www.itwswitches.com

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