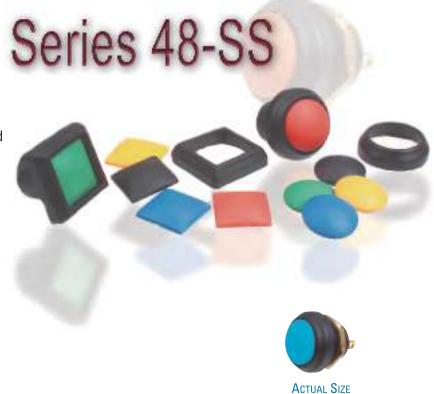
12MM MINIATURE HALL-EFFECT SEALED

This rugged sealed pushbutton switch uses a Hall-Effect sensor to achieve extremely long life, up to 1,000,000 cycles momentary. This switch is suited for harsh environments where long life and reliability are needed.

APPLICATIONS:

- Communications
- Data entry
- · Hand-held control modules
- Outdoor controls
- Mass transport controls
- Instrumentation



KEY FEATURES:

- 1,000,000 cycles momentary
- Momentary and maintained action
- Hall-Effect technology
- Choice of LED colors (or non-lighted versions)
- Panel sealed to IP67
- · Variety of Button colors
- Square and round versions available
- Solder, PC terminals or Wireleads

ORDERING INFORMATION:

| Module Type: | Switch Function: | Switch Termination: | Bezel Type: | Led# Color: | Button [@] Color: | Mounting Type: | Voltage Resistor: |
|--|---|--|----------------------------------|--|--|-------------------------|---|
| 48-3 48-4 48-7 48-8 48-C 48-D | Momentary Maintained Momentary Maintained Momentary Maintained | Solder Tabs Solder Tabs PC PC Wire Leads Wire Leads | RB Round, Black SB Square, Black | N None R Red G Green Y Yellow A Amber B Blue W White | (H)RD Red (for High Button) (H)GR Green (for High Button) (H)BK Black (for High Button) (H)BL Blue (for High Button) (H)YL Yellow (for High Button) (H)OR Orange (for High Button) (H)WH White (for High Button) | B Bushing S Snap-fit | If Blank* 05 5V Forward |
| | | | 48- | RB Red / Blue RG Red / Greer | #Light | s to protect fro | ome with wires on m solder heat. istor is required to |

STANDARDS / AGENCY / RATINGS:











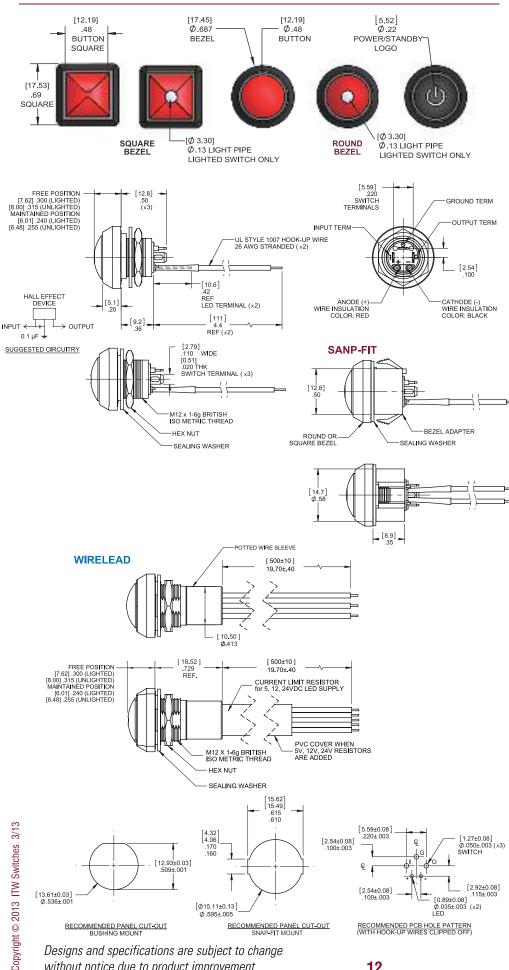
limit LED forward current to 20 mA

@ H__ only for High Button type.

(not included).

SERIES 48: 12MM MINIATURE HALL-EFFECT SEALED

PRODUCT DRAWINGS



MECHANICAL CHARACTERISTICS

CIRCUIT:

SPST-NO-DB (FORM X)

BUTTON TRAVEL (NOM):

[2.3] .09

OPERATING FORCE (NOM):

[3N] 306g

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:

 $[-40^{\circ}C \text{ to } +85^{\circ}C] -40^{\circ}F \text{ to } +185^{\circ}F$

ELECTRICAL SPECIFICATIONS

SUPPLY VOLTAGE:

4.2V TO 24V, 26.5 MAX

SUPPLY CURRENT:

B>Brp, Vcc=12V: 3mA TYP to 8mA MAX

B>Bop, Vcc=12V:

4mA TYP to 8mA MAX

OUTPUT LOAD:

SINKING (I out MAX = 25mA)

REVERSE BATTERY VOLTAGE:

-30V MAX

REVERSE OUTPUT CURRENT:

-50mA MAX

SWITCH LIFE:

MOMENTARY: 1,000,000 CYCLES MAINTAINED: 50,000 CYCLES

WIRE LEADS:

UL STYLE 1007 26 AWG, STRANDED



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

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