

Series 48SS

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

ACTUAL SIZE

ORDERING INFORMATION:

Switch Function	Switch Termination	Module Type	Bezel Type	LED Color †	Button Color	Mounting Type	Voltage Resistor
Momentary	Solder Tabs	48-3	RB - Round, Black	N - None	RD - Red	B - Bushing	If Blank*
Maintained	Solder Tabs	48-4	SB - Square, Black	R - Red	GR - Green	S - Snap-fit	05 - 5V forward
Momentary	PC	48-7	RC - Round, Chrome	G - Green	BK - Black		12 - 12V forward **
Maintained	PC	48-6	SC - Square, Chrome	Y - Yellow	BL - Blue		24 - 24V forward **
Momentary	Wire Leads	48-C		A - Amber	YL - Yellow		
Maintained	Wire Leads	48-D		B - Blue	OR - Orange		
				W - White	CR - Chrome		
				RB - Red / Blue	PK - Black with Standby Symbol		
				RG - Red / Green	WH - White		

† Lighted switches come with wires on LEDs to protect from solder heat.

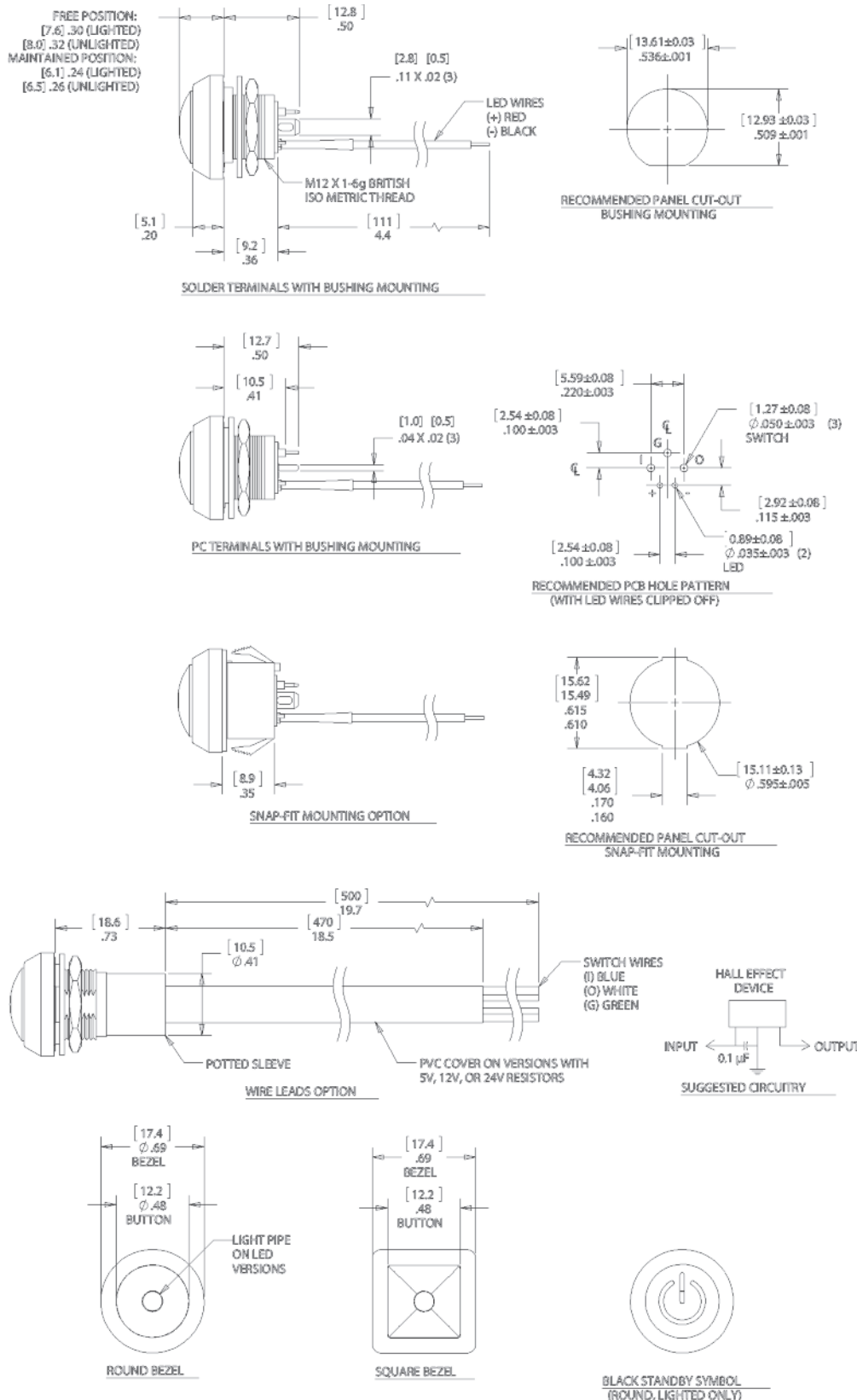
* Current limiting resistor is required to limit LED forward current to 20 mA (not included).

** 12 and 24 V resistors are available with wirelead versions only.

STANDARDS / AGENCY / RATINGS:



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 C to +85 C] -40 F to +185 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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ITW Switches:

[48-7-RB-N-RD-B](#) [48-7-RB-N-BK-B](#) [48-7-RC-N-CR-B](#) [48-7-RB-R-BK-B](#)