

SNAP ACTION

CUSTOM ASSEMBLIES

PUSH BUTTON

SEALED

ROCKER

INDICATOR

SLIDE

VANDAL RESISTANT

ILLUMINATED

ACTIVE TOUCH

Series 48 ss



Miniature Hall-Effect Sealed Pushbutton Switches

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, and offers a wide choice of mounting style, colours, terminations, lighting and momentary or maintained switching.

Key Features

- 1,000,000 cycles momentary
- Momentary and maintained action
- Hall-Effect technology
- Panel sealed to IP67
- Square and round bezel versions available
- Large choice of button colours
- Solder or PC terminals
- Choice of LED colours or non-illuminated versions

Typical Applications

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

TW Switches

Standards / Agency / Ratings



Patent # 6,965,085



Series 48 ss

Miniature Hall-Effect Sealed Pushbutton

Mechanical/Electrical Characteristics:

■ Circuit

SPST-NO

■ Button travel (nominal)

2.3mm

■ Life (mechanical):

1,000,000 cycles a max (momentary)
100,000 cycles max (maintained)

■ Operating force (nominal)

3N/306g

■ Contact bounce (nominal)

1 ms

■ Panel thickness

0.5-3mm

■ Temperature (operating)

-40°C to + 85°C

■ Supply voltage

4.2V to 24V, 26.5V Max.

■ Supply current

B<Brp, Vcc=12V:
3mA Typ. To 8mA Max.
B>Bop, Vcc=12V:
4mA Typ. To 8mA Max

■ Output current

30 to 50 mA

■ Reverse battery voltage

-30V Max.

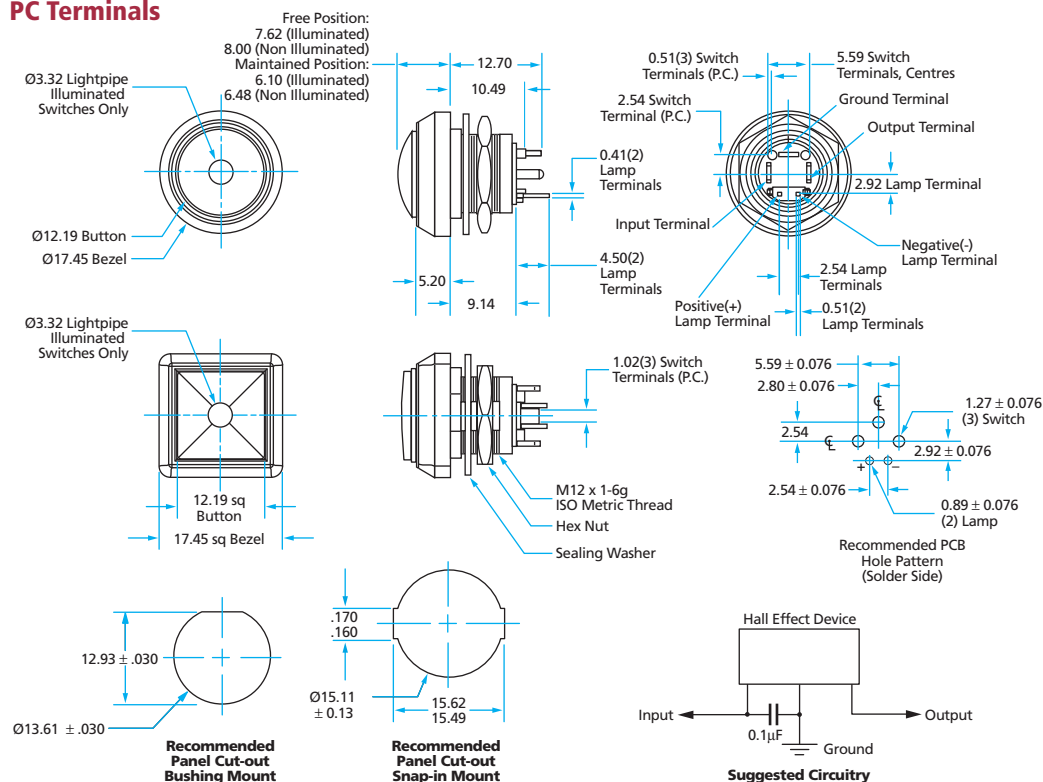
■ Reverse battery current

-50mA

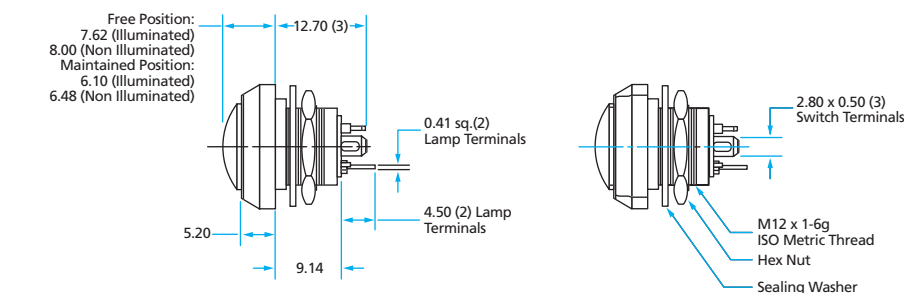
■ Torque (max) (Fixing Nut)

1-2 Newton Metre

PC Terminals



Solder Tab Terminals



Ordering Information

Switch Function	Switch Termination	Module Type	Bezel Type	LED Colour	Button Colour	Mounting Type
Momentary	Solder Tabs	48-3	RB - Round, Black	N - None	RD - Red	B - Bushing
Maintained	Solder Tabs	48-4	SB - Square, Black	R - Red	GR - Green	S - Snap Fit
Momentary	PC	48-7	RC, Round Chrome	G - Green	BK - Black	
Maintained	PC	48-8	SC, Square Chrome	Y - Yellow	BL - Blue	
				A - Amber	Y - Yellow	
				B - Blue	OR - Orange	
				W - White	CR - Chrome	
					WH - White	

ITW Switches

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