PUSHBUTTON SWITCHES

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



ACTUAL SIZE

KEY FEATURES:

- · Momentary or maintained action
- Gold contacts
- Many button colors
- Choice of LED colors (or non-lighted versions)
- Long life
- Solder, PC terminals or Wireleads
- Panel sealed to IP 67

ORDERING INFORMATION:

Switch Function	Switch Termination	Module Type	Bezel Type	LED Color †	Button Color	Mounting Type	Voltage Resistor
Momentary	Solder Tabs	48-1	RB - Round, Black	N - None	RD - Red	B - Bushing	If Blank*
Maintained	Solder Tabs	48-2	SB - Square, Black	R - Red	GR - Green	S - Snap-fit	05 - 5V forward
Momentary	PC	48-5	RC - Round, Chrome	G - Green	BK - Black	T	12 - 12V forward **
Maintained	PC	48-6	SC - Square, Chrome	Y - Yellow	BL - Blue		24 - 24V forward **
Momentary	Wire Leads	48-A	T	A - Amber	YL - Yellow		T
Maintained	Wire Leads	48-B		B - Blue	OR - Orange		
		Т		W - White	CR - Chrome		
				RB - Red / Blue	PK - Black with		
				RG - Red / Green	Standby Symbo		
				Т	WH - White		
					Τ		
			48-			LEDs to pr	vitches come with wires otect from solder heat.

STANDARDS / AGENCY / RATINGS:











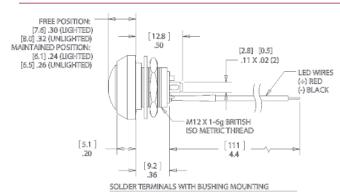
wirelead versions only.

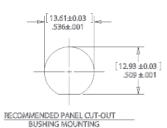
** 12 and 24 V resistors are available with

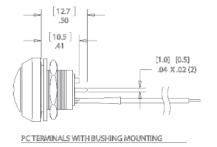
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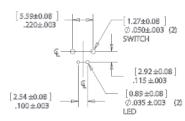
SERIES 48: 12MM MINIATURE SEALED ELECTRO-MECHANICAL

PRODUCT DRAWINGS

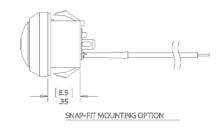


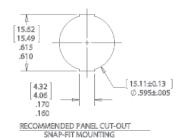


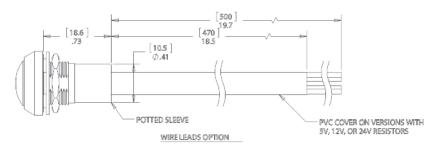


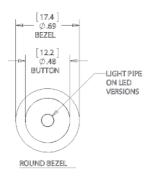


RECOMMENDED PCB HOLE PATTERN
(WITH LED WIRES CLIPPED OFF)













[MILLIMETERS] INCHES BLACK STANDBY SYMBOL (ROUND, LIGHTED ONLY)

MECHANICAL CHARACTERISTICS

CIRCUIT:

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):

[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

CURRENT RATING (resistive):

250mA @ 12VDC, 100K CYCLES

150mA @ 28VDC, 150K CYCLES (MOMENTARY)

100mA @ 48VDC, 100K CYCLES

10mA @ 12VDC, 1 MILLION CYCLES (MOMENTARY)

DIELECTRIC STRENGTH:

1,000 VAC

INSULATION RESISTANCE:

1G OHM

CONTACT RESISTANCE:

50m OHMS

WIRE LEADS:

UL STYLE 1007

26 AWG, STRANDED



Mouser Electronics

Authorized Distributor

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

ITW Switches:

48-2-RC-N-CR-B 48-1-SB-N-BK-B 48-1-RB-N-BK-B 48-1-SB-N-RD-B 48-1-RB-N-RD-B 48-5-RB-N-BK-B 48-2-RB-R-BK-B 48-1-RB-R-BK-B 48-2-RB-N-BK-B 48-1-RB-N-BK-B 48-1-SB-R-BK-B 48-1-SB-R-BK-B 48-1-SB-R-BK-B 48-1-SB-R-BK-B 48-1-SB-R-BK-B 48-1-RB-N-YL-B 48-1-RB-N-GR-B 48-1-RB-N-OR-B 48-1-RB-N-BL-B 48-1-RB-N-BK-S 48-2-RB-W-YL-B 48-1-RB-N-BK-B 48-1-RB-N-BK-S 48-A-SB-N-BK-B 48-A-SB-N-BL-B 48-A-RB-N-YL-B 48-A-RB-N-OR-B 48-A-RB-N-WH-B 48-5-RB-G-BK-B 48-2-RB-N-GR-B 48-5-RB-G-GR-B