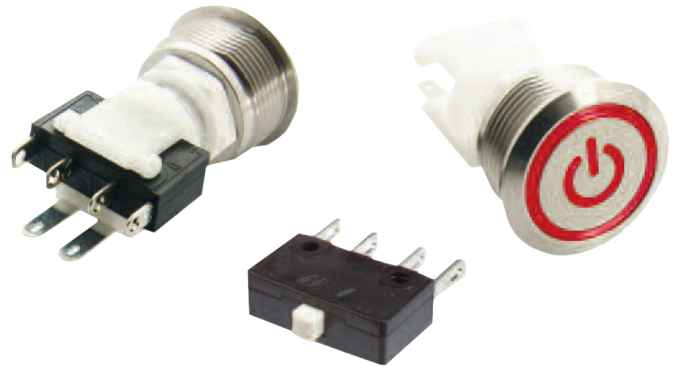


Lighting options include center spot, or ring illumination. This 19mm size make the H48M ideal for many applications in the transportation, security, food processing and medical markets.



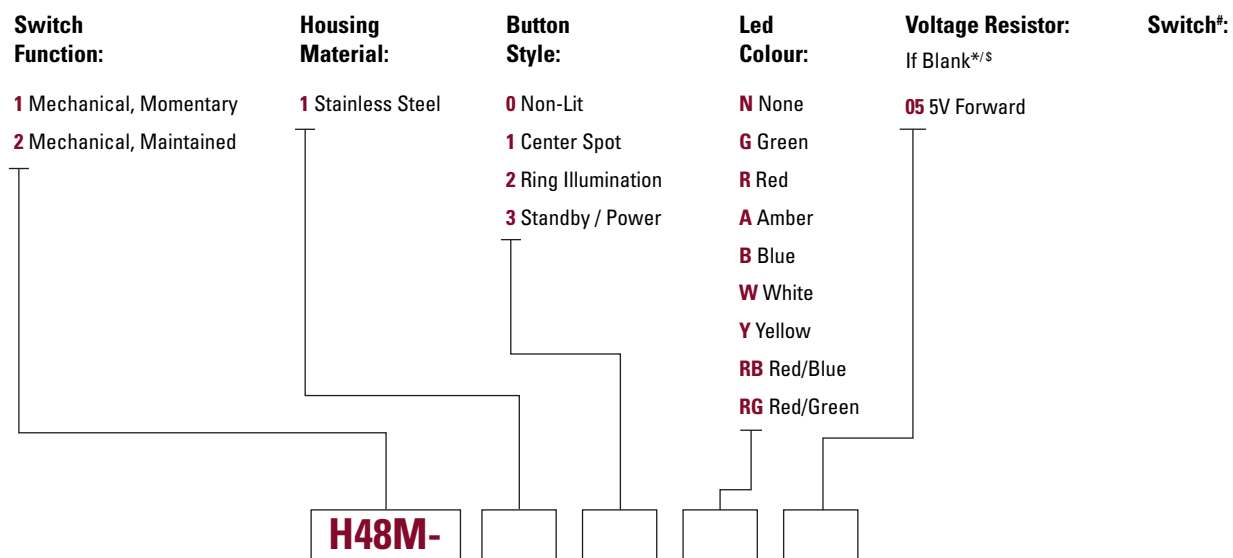
APPLICATIONS:

- Outdoor Controls
- Security Equipment
- Medical Equipment
- Food Processing Equipment
- Military Equipment
- Industrial Machinery
- Transportation: Mass-Transit, Lift Trucks

Key Features:

- Momentary or Maintained Action
- Stainless Steel Housing
- Center Spot or Ring Illumination
- Variety of LED colors
- Electro-Mechanical
- Panel Sealed to IP67
- ROHS Compliant
- Works with:
 - 16-4042 Snap Action switch (UL and CSA Certified): SPDT Form Z, Silver contacts
 - 16-530004 QC Terminal, SPDT Form Z, Silver contacts

ORDERING INFORMATION:



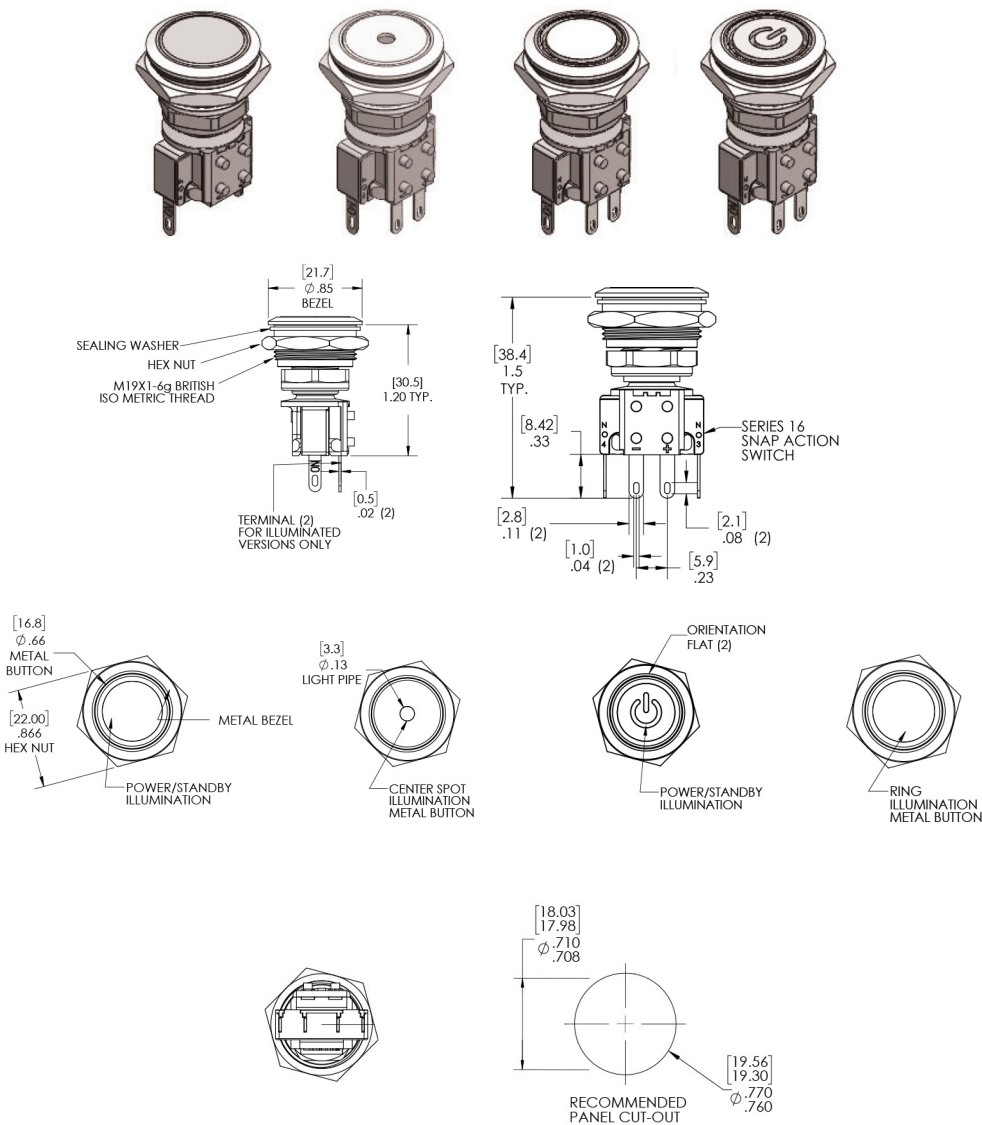
* Current limiting resistor maybe required to limit LED forward current to 20mA (not included)

^s Other integrated LED voltages can be provided upon request depending on project volume

Approved switches for use are the 16-4042 and 16-530004

LED forward voltage: – Red, Amber & Yellow: 2 V / Green, Blue & White: 3.4 V

PRODUCT DRAWINGS



MECHANICAL / ELECTRICAL CHARACTERISTICS:

- Circuit:** SPDT-DB (Form Z)
- Button travel (nominal):** 0.09 inches (2.3mm)
- Operating force (nominal):** 5.2N (520 grams)
- Contact bounce (nominal):** 1 millisecond
- Panel thickness:** 0.020" – 0.177" (0.5 – 4.5 mm)
- Temperature index:** -40° C to +85° C (momentary)
-40° C to +65° C (maintained)
- Torque (max):** 10 inch pounds
- LED operating temperature:** -13° F to +185° F
(-25° C to +85° C)
- Current ratings*:** 10A @ 125/250 VAC (res)
10A @ 28 VDC (ind)
- Actuator life (nominal):** 500,000 cycles (momentary)
50,000 cycles (maintained)

ELECTRO-MECHANICAL

- Dielectric strength:** 1,000 VAC
- Insulation Resistance:** 1GΩ
- Contact Resistance:** 50 mΩ max (initial)

LED SPECIFICATIONS

LED CODE	LED		CIRCUITRY	Vf (VDC)		If (mA)
	Colour 1	Colour 2		Colour 1	Colour 2	
A	AMBER	-		1.6~2.0	-	20
R	RED	-		1.6~2.0	-	20
Y	YELLOW	-		1.6~2.0	-	20
B	BLUE	-		2.8~3.4	-	20
G	GREEN	-		2.8~3.4	-	20
W	WHITE	-		2.8~3.4	-	20
RB	RED	BLUE		1.6~2.0	2.8~3.4	20
RG	RED	GREEN		1.6~2.0	2.8~3.4	20

Notes
1: Lead Soldering Temperature (4mm from Body): 280°C for 5 seconds
2: Hand Soldering Temperature (4mm from Body): 320°C for 3 seconds

PANEL-MOUNTING INFORMATION

The series H48M mounts easily into panels of minimum 0.020" (0.5 mm) and maximum 0.177" (4.5 mm) thickness. Front panel sealing to IP67 is achieved by a sealing o-ring fitted to the body of the switch before it is inserted into the panel hole cut-out. It is held onto the panel by means of a metal hex nut tightened down to a torque of 10 inch pounds to achieve the correct sealing pressure. The Basic Switch (16-4042) has to be installed after the pushbutton actuator is firmly secured to specified torque onto the panel.

