Series 48M-SS

19MM PANEL SEALED METAL HALL-EFFECT

Built on the proven series 48 platform these rugged switches come in stainless steel or chrome plated housings with either momentary or maintained action and lighted or unlighted versions. The variety of options in this compact package size make the 48M ideal for many applications.





ACTUAL SIZE

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
- Solid State
- Panel Sealed to IP67
- ROHS Compliant
- Gold Plated Contact and Terminals

ORDERING INFORMATION:

Switch Function:
3 Solid State, Momentary, Solder Terminal
4 Solid State, Maintained, Solder Terminal
7 Solid State, Momentary, PC Terminal
8 Solid State, Maintained, PC Terminal
C Solid State, Momentary, Wire Leads
D Solid State, Maintained, Wire Leads
9 Special, Digits Are in Serial Order

Housing Material:
1 Stainless Steel
2 Zinc Alloy
Chrome Plated

Illumination#:
0 Non-lit
1 Center Spot Illumination
2 Ring Illumination
3 Illumination Power Symbol

LED Color:
N None
G Green
R Red
A Amber
B Blue
W White
RB Red / Blue
RG Red / Green

Voltage Resistor:
If Blank*
05 5V Forward
12 12V Forward**
24 24V Forward**

48M- [ ] [ ] [ ] [ ] [ ]

#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.

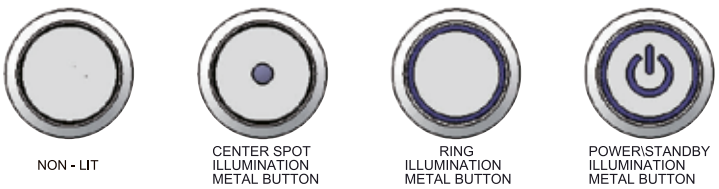
STANDARDS / AGENCY / RATINGS:

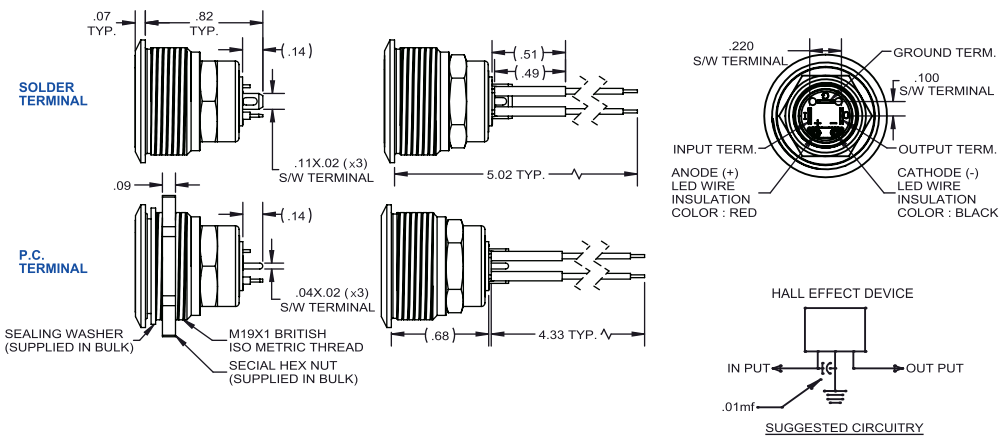
RoHS COMPLIANT 2002 / 95 / EC

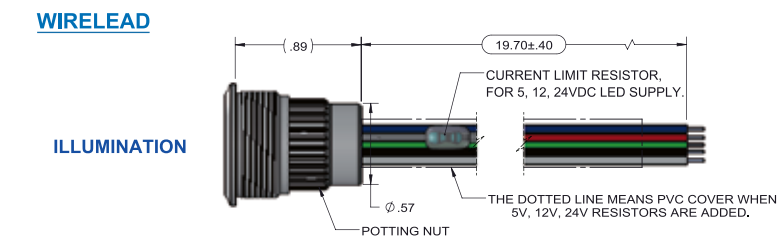
IEC IP67 COMPLIANT

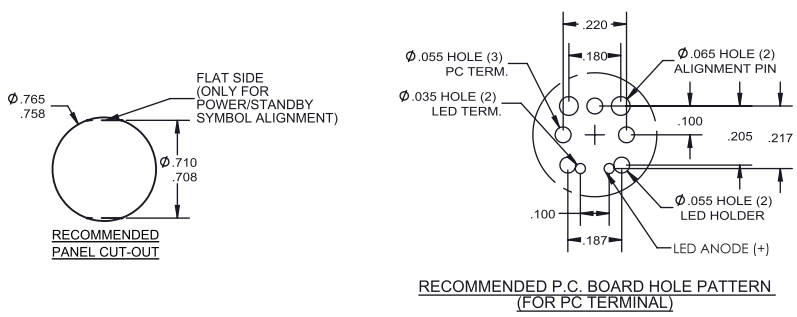
SERIES 48M: 19MM PANEL SEALED METAL PUSHBUTTON

PRODUCT DRAWINGS









PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 48M mounts easily into panels of minimum 0.20"(0.5mm) and maximum 0.177"(4.5mm) thicknesses. 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 panal hole cutout. 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. Designs and specifications are subject to change without notice due to product improvement.

MECHANICAL CHARACTERISTICS

CIRCUIT:
SPST-NO-DB (FORM X)

BUTTON TRAVEL (NOM):
[2.3] .09

OPERATING FORCE (NOM):
[3N] 306g

PANEL THICKNESS:
[0.5 to 4.5] .02 to .18

NUT TORQUE (MAX):
[11.5 kgf/cm] 10 lb/in

HARDWARE:

BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

ACTUATOR INGRESS PROTECTION:
IP67

OPERATING TEMPERATURE:
NON-LIT: [-40°C to +85°C]
-40°F to +185°F
ILLUMINATED: [-25°C to +85°C]
-13°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

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