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:

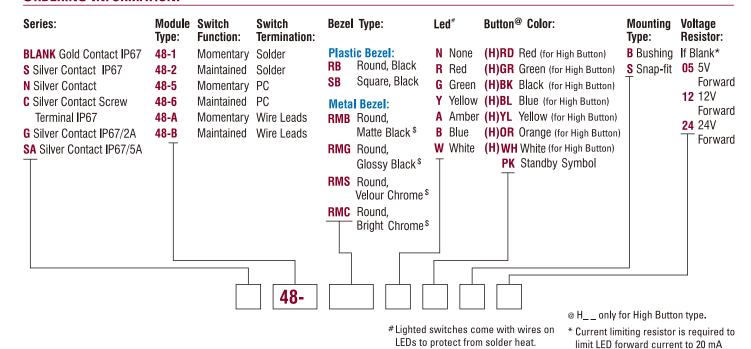
- · Office equipment
- · Medical equipment
- Industrial machinery
- Outdoor controls
- Mass transportation
- · Food processing equipment

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
- · Metal, Plastic bezel / housing
- Raised button
- Snap action in SA series



ORDERING INFORMATION:



STANDARDS / AGENCY / RATINGS:









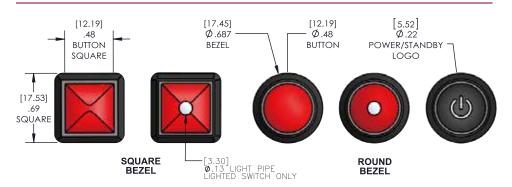
\$ Metal Bezel only for Momentray.



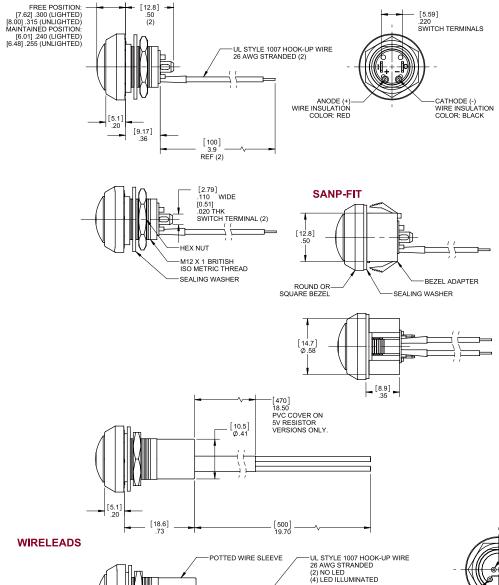
(not included).

SERIES 48: 12MM MINIATURE SEALED ELECTRO-MECHANICAL

PRODUCT DRAWINGS



48 SERIES



MECHANICAL CHARACTERISTICS

SPST-NO-DB (FORM X)

BUTTON TRAVEL (NOM):

[2.3] .09

OPERATING FORCE (NOM):

[3N] 306g

CONTACT BOUNCE (NOM):

ms

PANEL THICKNESS:

BUSHING MOUNTING: [0.5-3.0]

.02-.12

SNAP-FIT MOUNTING: [1.3-3.0]

.05-.12

NUT TORQUE (MAX):

[6 kgf-cm] 5.2 lb-in

HARDWARE

BUSHING MOUNTING: BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

ACTUATOR INGRESS PROTECTION:

IP67

OPERATING TEMPERATURE:

 $[-40^{\circ}\text{C to } +85^{\circ}\text{C}] -40^{\circ}\text{F to } +185^{\circ}\text{F}$

ELECTRICAL SPECIFICATIONS

CURRENT RATING (resistive):

48 (Momentary)

250mA @ 12VDC, 100K CYCLES 150mA @ 28VDC, 150K CYCLES 100mA @ 48VDC, 100K CYCLES 10mA @ 12VDC, 1 MILLION CYCLES

48 (Maintained)

50K CYCLES NOMINAL

DIELECTRIC STRENGTH:

1,000 VAC

INSULATION RESISTANCE:

1G OHM

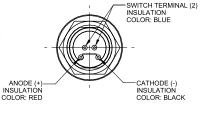
CONTACT RESISTANCE:

50m OHMS

WIRE LEADS:

UL STYLE 1007

26 AWG, STRANDED





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

-- M12 X 1 BRITISH ISO METRIC THREAD -- HEX NUT -- SEALING WASHER

800.544.3354

SERIES 48: 12MM MINIATURE SEALED ELECTRO-MECHANICAL

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):

[6 kgf-cm] 5.2 lb-in

HARDWARE

BUSHING MOUNTING: BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

ACTUATOR INGRESS PROTECTION:

IP67

OPERATING TEMPERATURE:

 $[-40^{\circ}C \text{ to } +85^{\circ}C] -40^{\circ}F \text{ to } +185^{\circ}F$

ELECTRICAL SPECIFICATIONS

CURRENT RATING (resistive):

S48 / N48 (Momentary)

10mA @ 12VDC,200K CYCLES S48 / N48 (Maintained)

20K CYCLES NOMINAL

G48 (Momentary)

2A @ 24VDC,40K CYCLES

2A @ 250VAC,40K CYCLES

G48 (Maintained)

2A @ 24VDC,20K CYCLES

2A @ 250VAC,20K CYCLES

SA48

5A @ 28VDC,25K CYCLES

5A @ 125/250VAC,25K CYCLES

DIELECTRIC STRENGTH:

1,000 VAC

INSULATION RESISTANCE:

1G OHM

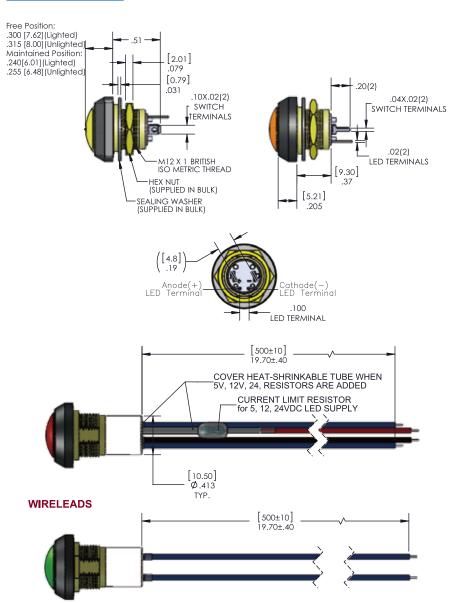
CONTACT RESISTANCE:

50m OHMS

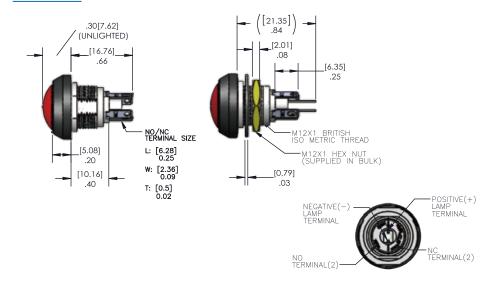
WIRE LEADS:

UL STYLE 1007 26 AWG, STRANDED

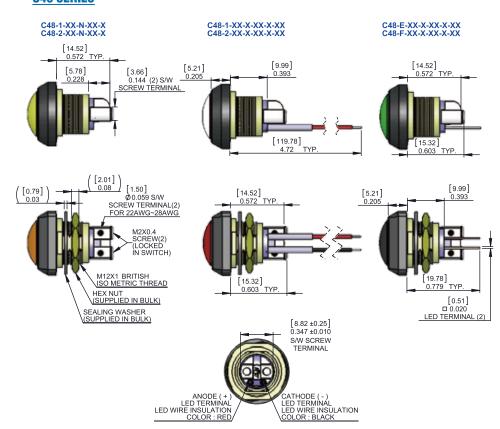
G48/ N48/ S48 SERIES



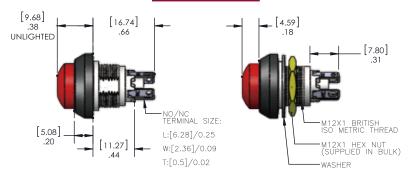
SA48 SERIES



C48 SERIES



HIGH BUTTON TYPE



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):

[6 kgf-cm] 5.2 lb-in

HARDWARE

BUSHING MOUNTING: BULK PACKAGED SEALING WASHER AND HEX NUT ARE INCLUDED.

ENVIRONMENTAL SPECIFICATIONS

ACTUATOR INGRESS PROTECTION:

IP67

OPERATING TEMPERATURE:

 $[-40^{\circ}\text{C to } +85^{\circ}\text{C}] -40^{\circ}\text{F to } +185^{\circ}\text{F}$

ELECTRICAL SPECIFICATIONS

CURRENT RATING (resistive):

C48 (Momentary)

10mA @ 12VDC,200K CYCLES

C48 (Maintained)

20K CYCLES NOMINAL

DIELECTRIC STRENGTH:

1,000 VAC

INSULATION RESISTANCE:

1G OHM

CONTACT RESISTANCE:

50m OHMS

WIRE LEADS:

UL STYLE 1007

26 AWG, STRANDED

RECOMMENDED PANEL CUT-OUT

