

SERIES 30

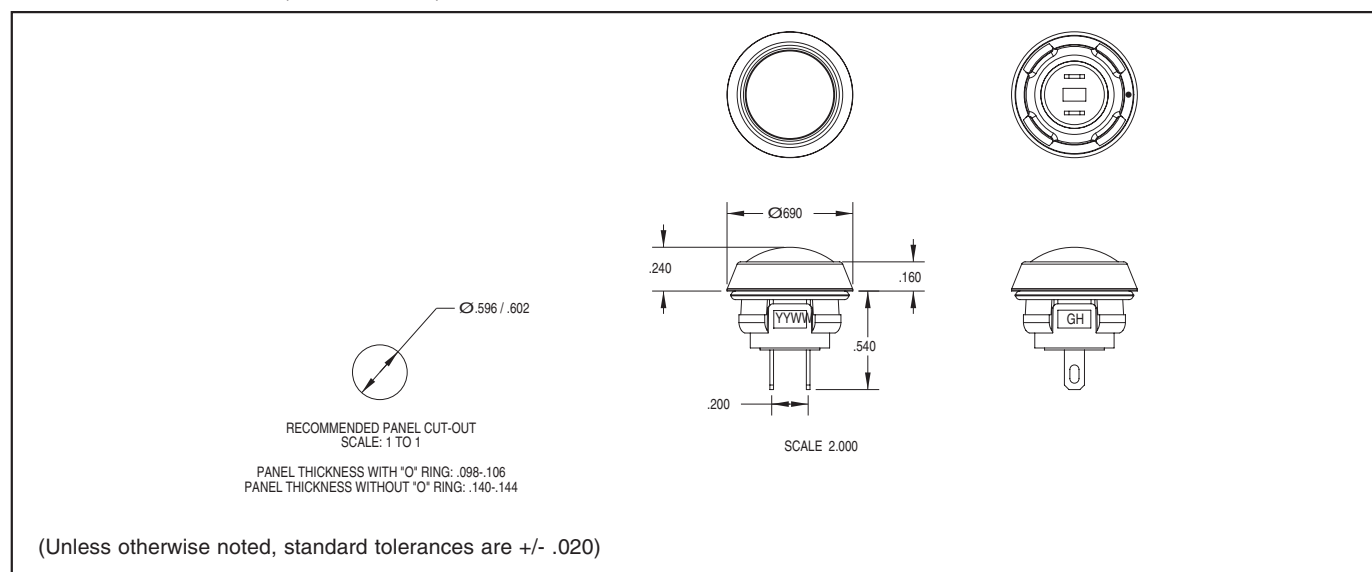
Snap-in Panel Mounting

FEATURES

- Convenient Snap-in Panel Mounting
- Choice of 6 Button Colors
- SPST (Momentary Contact)
- Gold Plated Contacts
- Sealed
- Butt Contact System



DIMENSIONS In inches (and millimeters)



MATERIAL

- Button, Housing, Base and Plunger: Nylon, 45% Glass-filled
- Terminal: Brass, gold-plated over nickel
- Shorting Bar: Brass, gold-plated over nickel
- Internal Seal: Silicon Rubber
- O-ring Seal: Silicon
- Spring: Tinned music wire
- Travel: .090 Nominal
- Travel Before Make: .035 Nominal

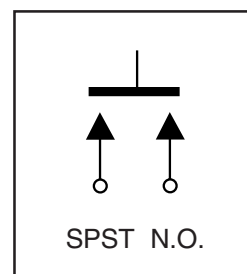
RATINGS

- Cycles: 500,000 Actuations
- Operating Temperature: -40° C to +80° C
- Shock: 100 G's/ 6 Milliseconds
- Rating at 24 VDC: 150 Milliamps
- Voltage Breakdown: 1000 Vac between mutually insulated parts
- Contact Resistance: 25mΩ max on new switch
- Insulation: 1,000 megohms minimum

ORDERING INFORMATION

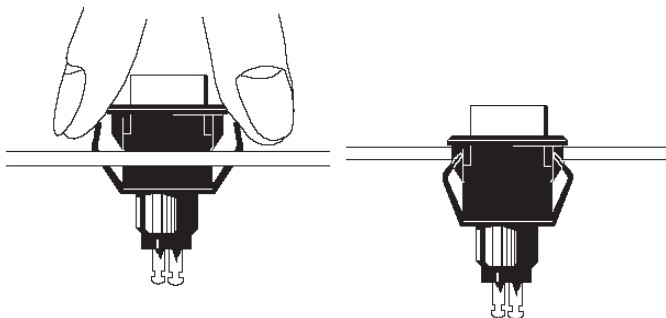
Part Number	Description
30-100	Black
30-101	Red
30-102	Green
30-103	Yellow
30-104	Orange
30-105	White

CIRCUITRY



MOUNTING

Easy Snap-In Mounting



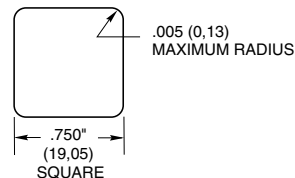
Just snap into pre-cut panel hole.

Plastic wings lock switch in place.

PANEL CUTOUT

Recommended Panel Cut

Switch will fit panels .049" (1,24) to .125" (3,18) thick. Recommended panel thickness is 18 gauge.



SPECIFICATIONS

Life Limiting Criteria—Series 30 & 46

Contact Resistance: Less than 25 milliohms on a new switch

Voltage Breakdown: 1,000 Vac between mutually insulated parts

Insulation Resistance: 1,000 megohms minimum

Ratings—Series 30

Current Rating:

30-601 150 mA, 5 Vdc resistive and 20 mA, 20 Vdc resistive

All others 1 A, 115 Vac resistive, or 0.5 A, 220 Vac resistive

Life Expectancy:

30-015 500,000 operations

30-017 200,000 operations

All others 1,000,000 operations

Ratings—Series 46

Current Rating: 250 mA, 115 Vac resistive or 125 mA, 220 Vac resistive

Life Expectancy: 250,000 operations

Materials and Finishes—Series 30

Bezel: Nylon

Button Cap: ABS plastic

Switch Bushing: Brass, tin zinc

Base: Thermoset plastic

Spring: Tinned music wire

Plunger: Polycarbonate

Shorting Bar:

30-601 Brass, gold-plated over nickel

All Others Brass with fine silver contact area

Base Contacts:

30-601 Brass, gold-plated over nickel

30-002 Brass with fine silver contact area

All Others Bronze with fine silver contact area

Terminals:

30-002 Brass, silver-plated

30-601 Bronze, gold-plated over nickel

All Others Bronze, silver-plated

Nut: Provided only on 30-017; allows button height adjustment. Brass, zinc trivalent chromate-plated.

Materials and Finishes—Series 46

Bezel: Nylon

Button Cap: ABS plastic

Switch Bushing: Brass, zinc trivalent chromate-plated.

Base: Thermoset plastic

Spring: Tinned music wire

Plunger: 46-402/502 Nickel-plated brass

All Others Polycarbonate

Shorting Bar: Phosphor bronze, silver-plated

Base Contacts: Phosphor bronze with silver contact area

Terminals: Phosphor bronze, tin/silver plating

Covers (46-200/201): Brass, zinc trivalent chromate-plated

STANDARD OPTIONS

Epoxy-sealed terminals and wire leads, see page E-35.

LEGENDING OPTION

Contact Grayhill

A button legend can be printed in epoxy ink which bonds to the surface of the button cap. Any type style or design which can be photographed can be used to produce the legend.

There is a per-button printing charge. A nominal set up charge per legend applies to orders of 1 to 99 pieces. Non-standard legends are subject to one time artwork and tooling charges. Consult Grayhill for help with actual legend.

ORDERING INFORMATION

Use the partial part number you have selected from the Dimensions and Part Number chart, and add the button color suffix. Example:

Color: 01, 03, 04, 05, 06, 07
46-200-A-03

01 = White 03 = Red 04 = Green
05 = Blue 06 = Yellow 07 = Black