# SERIES 59: MINIATURE PANEL SEALED METAL

#### **PRODUCT DRAWINGS** 17.5 SQ 17.5 ø 17.5 ¢ .69 SQ .69 DIA .69 DIA BUTTON COLOR 7.0 BLACK BEZEL SEALING "O" RING (UNDER BEZEL) BRASS LOCKNUT 13.0 13.0 13.0 .51 .51 .51 M12 X 1.0 BRITISH HIGH ROUND BEZEL ISO METRIC THD SQUARE BEZEL 4.5 RFF (2) GOLD PLATED BRASS 18 SOLDER TERM (2) ROUND BEZEL 12.95/12.90 .509 ± .001 13.65/13.60 ø .536 ± .001 DIA

RECOMMENDED PANEL CUT-OUT

### PANEL MOUNTING AND CONSTRUCTION INFORMATION

The series 59 mounts easily into panels of minimum 1.5mm (.060 in.) and maximum 3mm (.118 in.) thickness. Front panel sealing to IP67 is achieved by a sealing "0" ring fitted into a premachined groove on 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 brass hex nut tightened down by a 14mm spanner, to a torque of between 1.5Nm to 3.0Nm to achieve the correct sealing pressure. A "D" flat is provided to prevent rotation.

# **PUSHBUTTON SWITCHES**

## **Mechanical / Electrical CHARACTERISTICS:**

Travel (nom):

2.3mm (.090 in.)

Life (max): 1,000,000 cycles

**Operating force (nom):** 3N / 306 grams

**Contact bounce (nom):** 1 millisecond

Panel thickness (max): 3mm (.118 in.)

**Dielectric strength:** 1000 VAC

Insulation resistance:  $1 \, \text{G}\Omega$ 

**Contact resistance (initial):**  $50 \text{ m}\Omega$  (Max)

#### **Current rating (typical):**

400mA at 32 VAC resistive 100mA at 50 VDC resistive 125mA at 125 VAC resistive Shock:

100G

#### **Operating temp range:**

-55°C to +125°C (-67°F to +257°F)

**Body material:** zinc alloy, black

**Button material: PBT** thermoplastic

**Contacts:** gold plated palladium nickel

**Terminals:** gold plated brass

