

**SERIES 59:**



ACTUAL SIZE



**MINIATURE PANEL SEALED PUSHBUTTON MADE OF ZINC ALLOY**

This rugged panel sealed pushbutton is made of a special high creep strength non-spark zinc alloy suitable for use in mining or other potentially explosive atmospheres where dust and moisture are problematic.

**KEY FEATURES:**

- Panel sealed to IP67
- Momentary action
- Non-spark material
- 500,000 life cycles @ max power
- Impact resistant
- Gold contacts
- Wide temperature range: -55°C to +125°C

**APPLICATIONS**

- Communications
- Instrumentation
- Data processing
- Process controls
- Transportation/material handling

**ORDERING INFORMATION:**

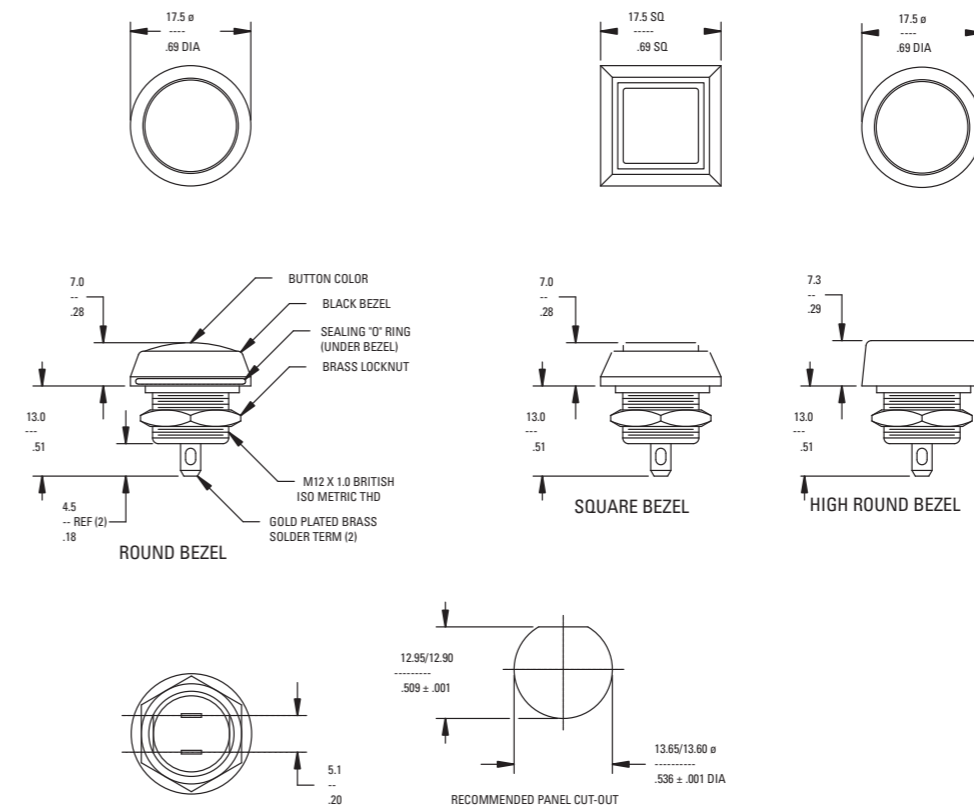
Part Number	Bezel Style	Button Color*
59-111	Round	Black
59-112	Round	Red
59-113	Round	Green
59-211	Square	Black
59-212	Square	Red
59-213	Square	Green
59-311	High Round	Black
59-312	High Round	Red
59-313	High Round	Green

\*Consult factory for additional colors.

**STANDARDS / AGENCY / RATINGS:**



**SWITCH DRAWINGS**



**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 "O" ring fitted into a premachined groove on the body of the switch before it is inserted into the panel hope cut out. It is held onto the panel by means of a brass next 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.

**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 GΩ
- Contact resistance (initial):** 50mΩ (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