# Series 59

## MINIATURE METAL PANEL SEALED PUSHBUTTON

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.



ACTUAL SIZE

## APPLICATIONS:

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

## 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

## 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.

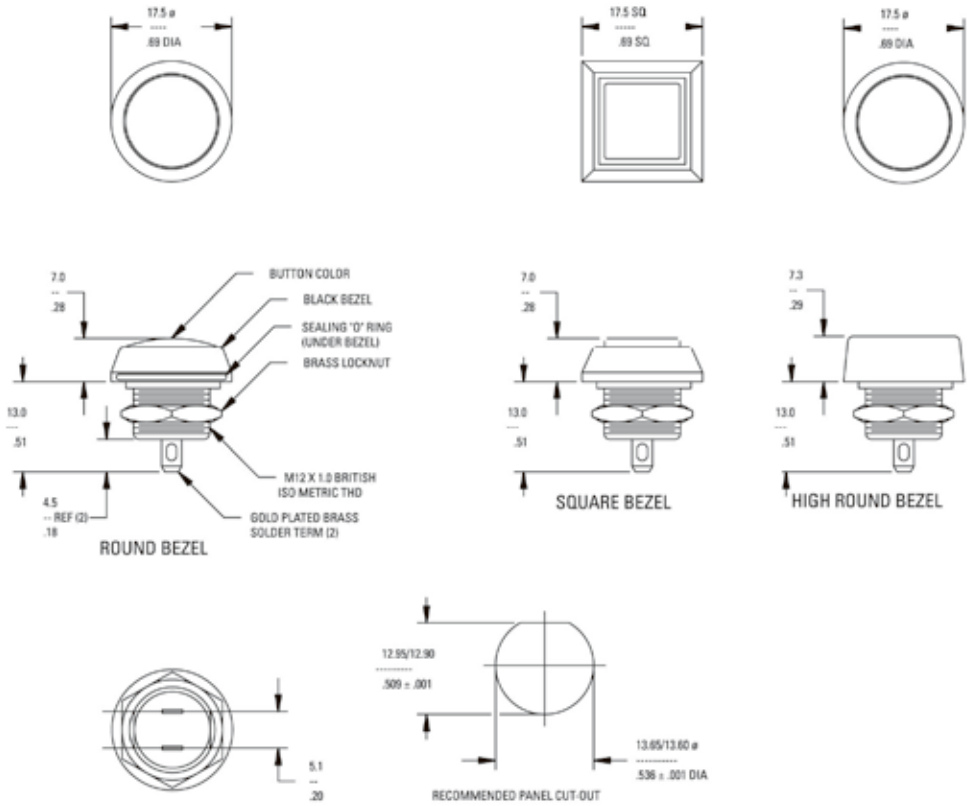
## STANDARDS / AGENCY / RATINGS:

RoHS COMPLIANT 2002 / 95 / EC

IEC IP67 COMPLIANT

# SERIES 59: MINIATURE PANEL SEALED METAL

## PRODUCT 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 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.

## 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):**
50 mΩ (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