

# PUSHBUTTON SWITCHES

## MINIATURE PANEL SEALED METAL PUSHBUTTON

### 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.

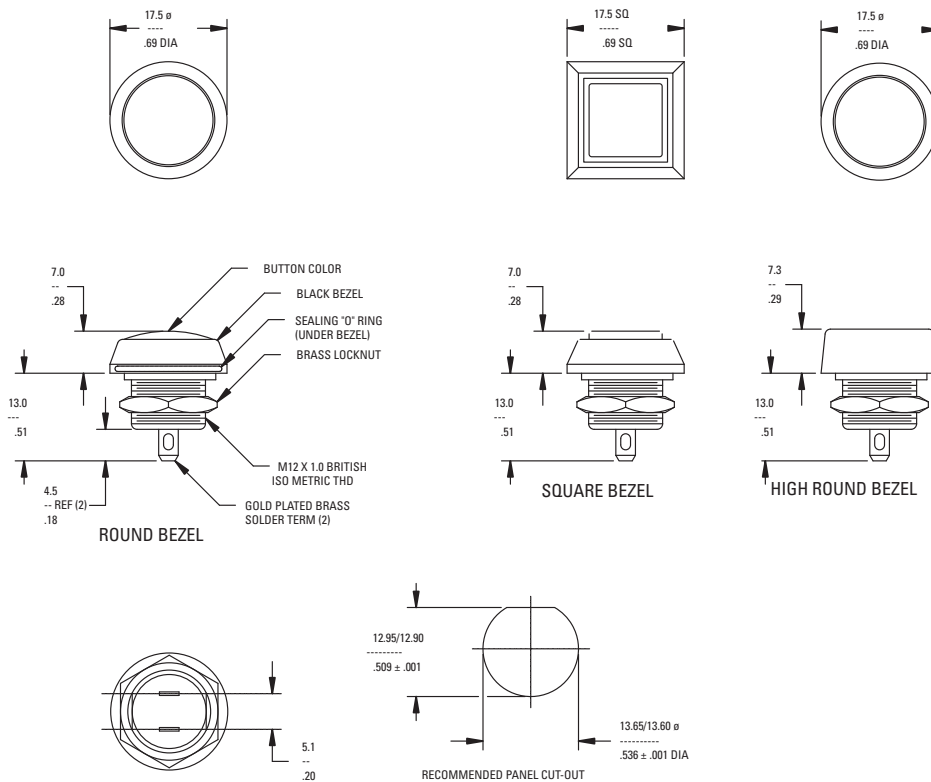


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### STANDARDS / AGENCY / RATINGS:



SWITCH DRAWINGS



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

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.

In2Connect UK Ltd  
 Unit L, Tyson Courtyard  
 Weldon South Industrial Estate  
 Corby  
 Northants  
 NN18 8AZ UK  
 Tel: 01962 773004  
 sales@in2connect.uk.com