

Patents Granted Full and Half Toggle Environmental Sealing Boots



FEATURES AND BENEFITS

1. Avoid unintentionally tripping a sensitive switch into the on/off position
2. Ultra Flex Designed to provide very little or no resistance to the actuator
3. UL Recognized
4. NEMA 4, 4X/IP68 sealing capabilities

CROSS REFERENCE

| Switch P/N | APM Hexseal P/N's |
|-------------------------|---|
| CBI - "B"/ "D" Frame | 1131/60 (1/2-32 thd) 1132/60(15/32-32 thd) |
| Airpax - "Snapak" Frame | |
| Carling – "M" Frame | 1132/60 M12 (M12-1 thd) |



To avoid unintentionally tripping a sensitive breaker/switch into the on/off position, we recommend attaching the APM HEXSEAL® 1131/60 or 1132/60(half boot) inverted bellow toggle switch boot. There are an increasing number of breakers/switches that when covered with an environmental sealing switch cover can trip the breaker switch into the off position due to the mere physics of being covered by the wrong type cover. APM uses low durometer rubber in many cases to guard against this tendency. However, there are an increasing number of breaker/switches where this strategy alone is not sufficient, and our **"Ultra Flex Series"** with a bellow design incorporated therein is very able to combat this problem. The 1131/60 should be used with CBI "B"/"DD" frame, Airpax "Snapak" frame, and Carling "M" frame all with an extremely light spring load on the baton style actuator handle. Miniature toggle switches that have an extremely light actuation force should use the 1132/60. These are used extensively by the military, marine, industrial, construction and commercial industries around the world.

The Ultra Flex is designed to provide very little or no resistance to the actuator that would cause the breaker to trip.

It still provides a UL recognized sealing performance that meets the NEMA 4, 4X/IP68 sealing standards.

APM HEXSEAL patented the original circuit breaker environmental sealing breaker cover and associated electromechanical switch sealing boots 65 years ago and continues to do so today.

APM's mission is to provide complete sealing solutions resulting in total customer satisfaction. The world continues to evolve technologically, and APM continues to resolve sealing problems for industry and the military.

SPECIFICATIONS

Material: HEXSEALS: Silicone rubber conforms to A-A-59588 Class III, GR 25 (unless otherwise specified)
Mounting Nut: Brass nickel plated
Temperature Range: -94° F to +400° F (-70° C to +204° C)
Pressure Range: Exceeds 15 psi internal and 1,500 psi external
Resistant to: Salt spray, sunlight, ozone, weather, fungus, and most acids and lubricating oils.
Shelf Life: Excess of 25 years
Operation Life: 50,000 actuations minimum

Notes:

1. 1131/60 and 1132/60 standard colors: Gray or Black unless otherwise specified.
2. New sizes and types of toggle boots being added regularly. Please request other types and styles as required.

Agency Recognition: UL and ULC Recognized to UL Std. 50.

*APM's policy is to manufacture our HEXSEAL® sealing boots as defined by the requirements to MIL-DTL-5423 which we regard as the standard for the switch, circuit breaker and potentiometer industry. These requirements were formulated based on our original patent.



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