Jackson Research

2700 Series

Balanced Magnetic Switch (BMS)

Features

- Balanced Magnetic Contacts
- Defeat Resistant
- Passive Operation
- Vibration and Shock Resistant
- Ultra Low Gap Hysteresis
- Tamper Option
- Surge and Lightning Protection
- All Climates Category

Description

This Balanced Magnetic High Security Switch is an advanced passive proprietary balanced magnetic contact switch (BMS). The device is the product of advanced numerical methods and computer aided design techniques. Actuation is achieved by a coded coplanar magnetic bar. Meets or exceeds Federal Specification Components for Interior Alarm Systems, Balanced Magnetic Switches W-A-450/1 August 28, 1990. UL Class 94V-O and UL 634.

Absolute Maximum Ratings

Voltage Maximum ..... +28V
Current Maximum ..... 25 mA
Power Maximum ..... 3 Watts
Actuating Gap ..... 0 to 0.75inches
External Magnetic Fields ..... Unlimited
Operating Temperature Range ..... -40°C to 100°C
MTBF* ..... 1,000,000 Full Load
10,000,000 Dry Circuit

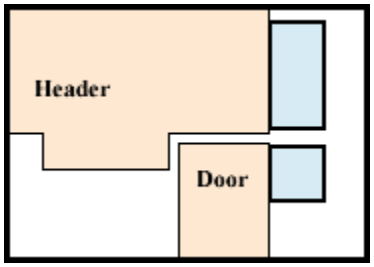
The Balanced Magnetic High Security Switch is an advanced passive proprietary balanced magnetic contact switch (BMS). The device is the product of advanced numerical methods and computer aided design techniques. Actuation is achieved by a coded coplanar magnetic bar. Shock, vibration, and induced line voltage transients are the primary cause of false alarm indication associated with magnetic contacts. Special Construction makes it resistant to shock, vibration and line transients.

This advanced technology has been designed to minimize any actuation hysteresis. This is an additional feature that makes it resistant to certain types of defeat methods.

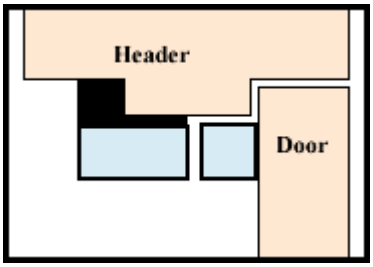
It meets or exceeds US Federal Specification Components for Interior Alarm Systems, Balanced Magnetic Switches W-A-450/1 August 28, 1990 in addition to UL Class 94V-O and UL 634. This is an all climate design.

* The Mean Time Between Failures (MTBF) specification assumes a resistive load. The MTBF for any particular reactive load must be determined empirically in all cases and varies with temperature, altitude, and the specific auxiliary contact protection circuitry used. Therefore, it is not specified. Contact technical assistance for help with reactive loads and auxiliary contact protection circuits.

Mounting Styles



Mounting Style # - M1

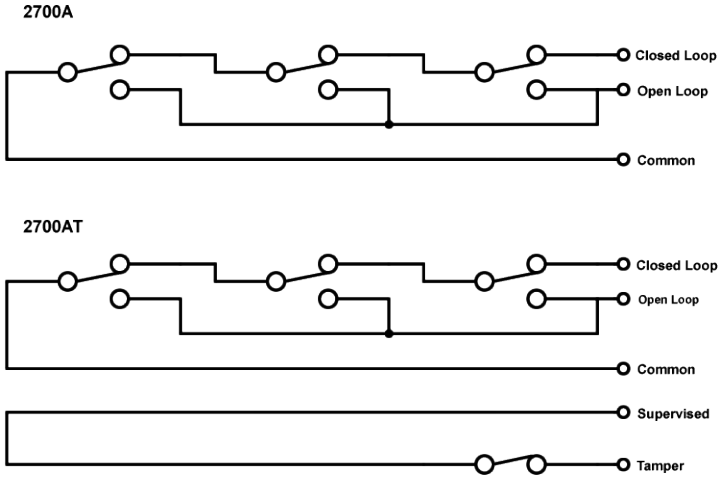


Mounting Style # - M2

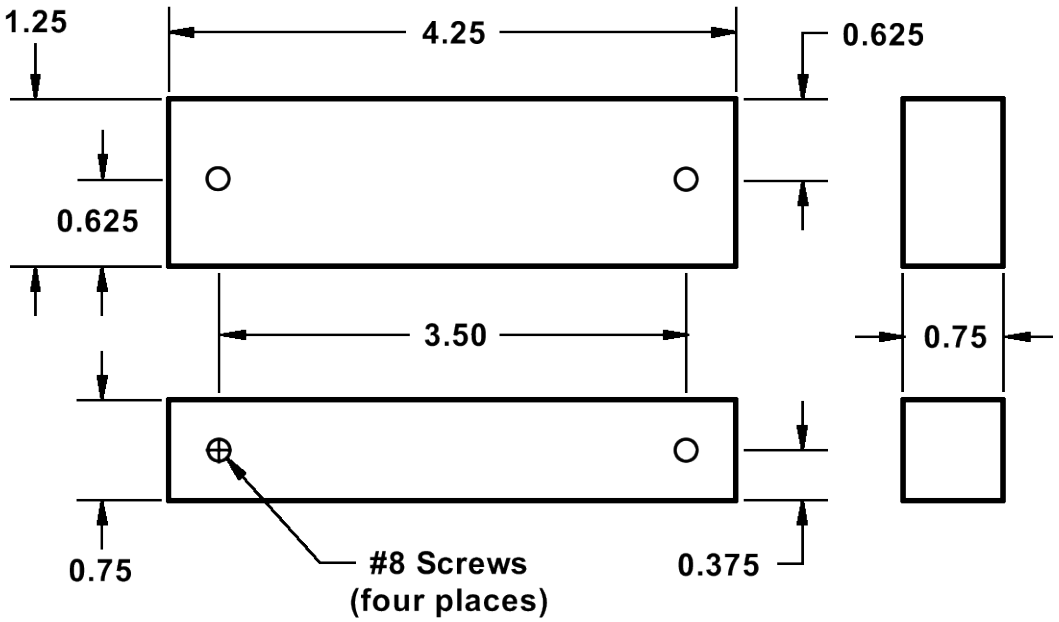
There is no minimum spacing or gap between the switch and the actuator. Installation with the gap or other position parameters near their maximum ranges should be avoided. Careful alignment during installation will insure reliable operation during normal settling or shifting of the door relative to the header.

Wiring Options

Diagrams show secured switch position – actuator in range.



Package Description



Case: Black Anodized
Cable Length: 36 inches Flexible Armor
Wire Gauge: 24 AWG stranded – Wires not color coded (Removable Labels)

Jackson Research

Test Wave
1515 Greg Street
Sparks, Nevada, USA 89431-5915
Phone: (775) 356-8378
Fax: (775) 356-8290
Website: http://www.testwave.com/

Al Bakowski
14610 Mono Way Spc 54
Sonora, California 95470
Phone: (209) 532-1770
Fax: (209) 532-1811

May Pak
2/F 20A Nam Shan Village
Sai Kung, NT
Hong Kong
Phone: 852-2792-2240
Fax (US): (630) 214-2645

Website: http://www.jrmagnetics.com/
Email: unobtainium@jacksonltd.org
