

# **MAGNASPHERE L1.5 SERIES**

## **Architects and Engineering Specifications**

### **Related Sections**

High Security Switch (HSS) Magnetic Door Contacts for use with SCIF and other High Security Intrusion Detection Systems and Access Control Systems

### **References**

Underwriters Laboratories Inc. (UL)

UL634; Standard for Connectors and Switches used in Burglar Alarm Systems, Level 1 High Security

UL913 Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous Locations (includes UL60079-11, the US adoption of the IEC 60079-11 standard for intrinsic safety, taking a national deviation [identified in the standards DV or DR] to correspond to the definition in the national electrical code. Sections 3.1.1, 5.4 and associated DV and DR deviations – Simple Apparatus

Office of Director of National Intelligence, Intelligence Community Standard (ICS) 705-1, Chapter 7; Sec. 2 d)

### **Design Requirements**

The HSS must be made with Magnasphere magnetic switch technology.

The HSS must have integrated Removal Tamper Circuit and hardware, to actuate on removal of switch from mounting surface

The HSS must be used with End of Line (EOL) resistors and be compatible with control panel models that accept contact inputs.

The HSS shall be rated for indoor use.

The HSS must qualify as an Intrinsically Safe Simple Apparatus.

### **PRODUCTS – L1.5-111, 121, 221, 101, 201**

#### **Materials**

Switch and Magnet Housings made of aluminum –Housing dimensions to be nominally 4.25”L x 1”H x 1”D, with mounting holes for # 10 screws, and # 6 screw for removal tamper

Internal switches must be Magnasphere switch technology

Internal switches must be fully potted using 94HB rated material

Lead wires to be solid color coded with stainless steel armored jacket

### **Design features**

Contact form: One Open and One Closed Loop Alarm Contact, Closed Loop Tamper Contact or Two Closed Loop Alarm Contacts, Closed Loop Tamper Contact, or Two Open Loop Alarm Contacts, Closed Loop Tamper Contact or One Closed Loop Alarm Contact, Closed Loop Tamper Contact or One Open Loop Alarm Contact, Closed Loop Tamper Contact.

Max. Electrical Rating

250 mA

30 VDC (Resistive)

0.25 W

Integrated Removal Tamper circuit / hardware

Universal cross-hole mounting for in-swing or out-swing door installations

UL 634 Level 1 High Security Listed

### **EXECUTION**

#### **Installation**

Per Manufacturer's Instructions