

MAGNASPHERE L2S AND L2D 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 2 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, or contain embedded End of Line (EOL) resistors and be compatible with control panel models that accept contact inputs.

The HSS shall be rated for both indoor and outdoor use.

The HSS must qualify as an Intrinsically Safe - Simple Apparatus.

PRODUCTS – L2S-000, 001, 002, 003, 004, 005, 006, 007, 008, 009, 011, 012, 013, 014, 017, 018

P2S-000, 001

L2D-000, 001, 002, 003, 004, 007, 008, 010, 011, 012, 013, 014, 015

P2D-000

L2S-800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 811, 812, 813, 814, 817, 818

L2D-800, 801, 802, 803, 804, 807, 808, 809, 811, 812, 813, 814, 815

Materials

Switch and Magnet Housings made of anodized aluminum –Housing dimensions to be nominally 4.25”L x 1.5”H x 1”D, with mounting holes for # 10 screws, and # 6 screw for removal tamper

Internal switches must be Magnasphere technology

Internal switches must be fully potted using 94HB rated material

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

Design features

Contact form: Open or Closed Loop Alarm contact. Closed Loop Tamper contact - Or Two Closed Loop Alarm Contacts, Closed Loop Tamper contact, or one Open and One Closed Alarm Contacts, Closed Loop Tamper contact

Max. Electrical Rating

250 mA

30 VDC (Resistive)

0.25 W

Embedded EOL resistors available

Integrated Removal Tamper circuit / hardware

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

UL 634 Level 2 High Security Listed

EXECUTION

Installation

Per Manufacturer’s Instructions