



Specifications

Lock Monitoring Microswitch Box Commercial and High Security Applications

Functionality

AMS Australia designs and manufactures a range of microswitch boxes that can be used as part of an intrusion alarm system or other monitored instrumentation or building management system. The microswitch box can be used in a diverse range of applications which include, but are not limited to, securing rooms by monitoring door or lock latch or bolt position, manhole covers and freezers. It fits all EOL (end of line) devices or modules and can be used to activate alarms and trigger CCTV cameras. Custom designed models are also developed to meet user specific applications.

The microswitch box incorporates a plunger microswitch that, when coming into contact with a lock, can alert a central monitoring station that the lock mechanism has engaged. In addition, the microswitch box houses a lever arm tamper switch that activates when the box cover is removed. As an added measure, security screws are used to secure the face plate. The microswitch box can be installed in steel, aluminium or wooden frames.

Some models incorporate a magnetic reed switch/triple reed within the microswitch box. This monitors the door position and works in conjunction with the lock monitoring.

The microswitch boxes are available in a range of sizes depending on the application and desired compatibility with specified door furniture and have the added benefit of being retrofittable. The products have a stainless steel face plate and the body is constructed of seam welded mild steel. Dimensions are outlined in each product brochure.

Microswitch and Reed Switch Specifications

The microswitch and reed switch function is within the limits of normal manufacturing capabilities. The microswitch boxes come supplied with one change over contact that can be used for multiple applications. Standard security wiring applies depending on the installation system and requirements.

- 1. Plunger:**
Cont. rating 480VAC, 280VDC, 15A
Mech. Life >10⁷ operations
Temp. range -55°C to +85°C
- 2. Lever Arm:**
Cont. rating 250VAC 5A resistive
 3A inductive
Mech. Life 10⁶ operations
Temp. range -55°C to +120°C
- 3. Magnetic Reed/Triple Reed Switch:**
Inclusion of a reed switch is optional with some models and specifications depend on application requirements.

Approvals and Ratings

The plunger microswitch has UL Rating (File No. E41515)/CSA (File No. LR21642/SEV (file No. S20/163) and the tamper switch meets Approved Standards UL/CSA, VDE (EN61058-1) and TÜV Rheinland (EN61058-1).

The microswitch boxes are approved by the Australian Government for top high security applications and listed in the SEC (Security Equipment Catalogue).