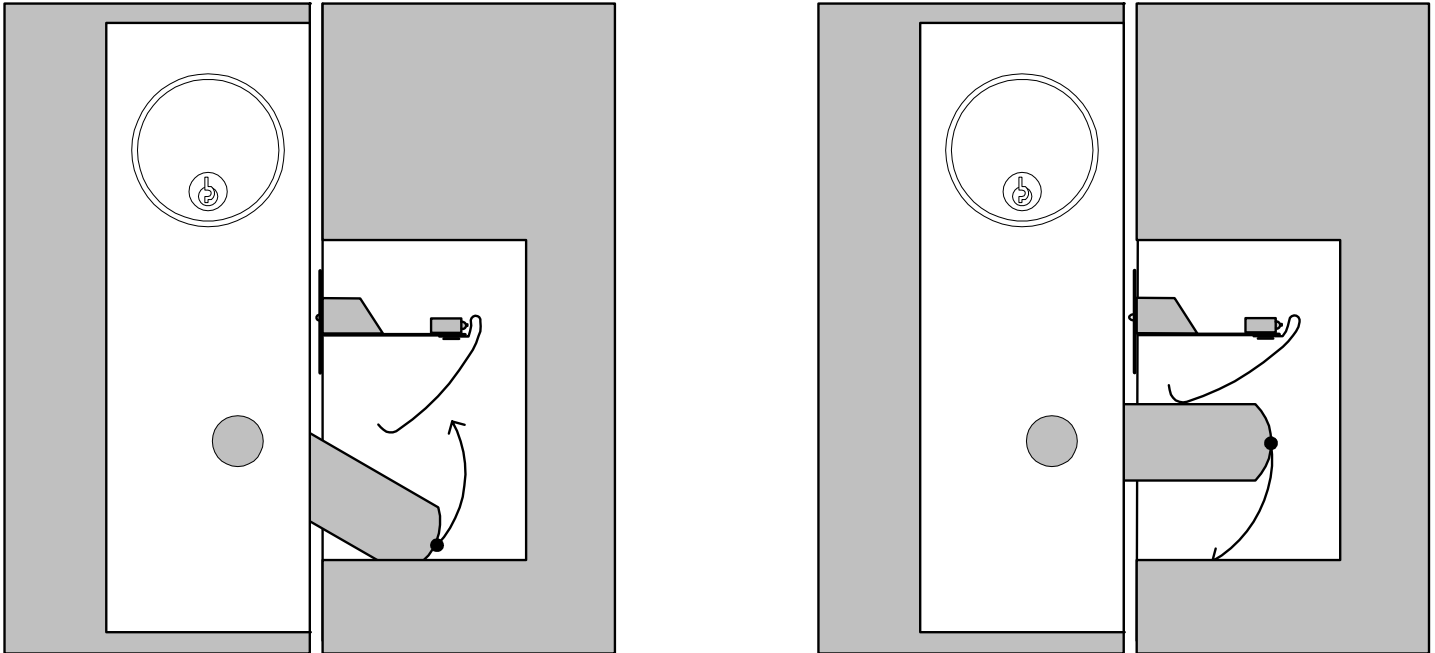


SECURITRON MODEL LMD-1 DEADLOCK MONITOR INSTALLATION AND OPERATING INSTRUCTIONS

1. DESCRIPTION

The Deadlock Monitor is employed with an **Adams Rite MS type** deadlock or similar lock from an alternate manufacturer to report on the locked or unlocked status of a narrow stile door (usually aluminum frame glass). The LMD-1 provides an **SPDT dry output** to an alarm system or other monitoring device. It provides higher security assurance than the more commonly employed magnetic contacts which report a door as "closed" when it may still be unbolted. The LMD-1 installs easily in the door frame stile without the need for any routing.

FIG. 1: LMD OPERATION WITHIN THE DOOR FRAME STILE

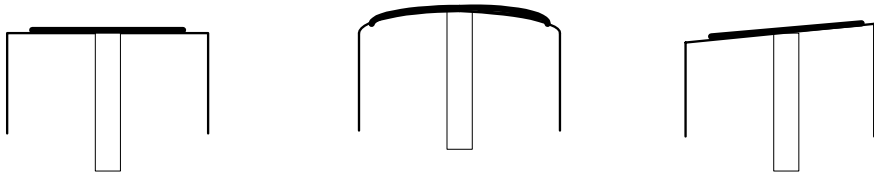


2. PHYSICAL INSTALLATION

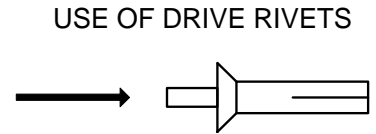
The LMD-1 is installed within the door frame such that as the bolt moves into the secure position, the curved trigger is deflected. There is a lot of "margin for error" in the amount of deflection because as soon as the curved trigger moves, the switch will change state. Figure 1 shows how this works. A benefit of the LMD-1's design is that when the door is locked, the trigger assembly is not touching the switch so that aggressive rattling of the door will not affect the switch.

You will drill three holes following the **template** (see back page) to mount the Deadlock Monitor. To **set your vertical position** for the template on the door frame stile, **close the door and throw the Deadlock**. Mark the level on the frame even with the top of the bolt. This is the point at which you place the line on the template. Center the template on the face of the frame and drill the three holes as shown. The central hole is **9/16" (15 MM)** in diameter and the outer holes are **1/8" (3 MM)** in diameter. After you drill the 9/16" hole, **rock the drill bit** up and down vertically to make the hole somewhat oval shaped. Once you have drilled the holes, **check if the door frame face is curved or angled** as opposed to flat (see Figure 2). If it is curved, the LMD's mounting plate is made thin enough so that it will bend to follow the curve. If the frame face is angled, you can bend the mounting plate with respect to the projecting bracket which holds the switch to correct for the frame face angle. Then, **after you have connected your wires** and pulled them up the door frame, push the unit into the 9/16" diameter hole by first collapsing the trigger in your hand (it will spring out again when the unit is in the hole). The unit is secured by pushing the supplied drive rivets into the outer holes and **tapping them flush** with a hammer. If, subsequently, the unit has to be replaced, use a center punch to drive the central pin all the way through the rivet. The rivet can then be rocked out with a knife blade.

FIG. 2: MOUNTING IN FLAT, CURVED OR ANGLED FRAMES AND USE OF DRIVE RIVETS



FOR FLAT FRAME FACE (LEFT), UNIT INSTALLS NORMALLY. FOR CURVED FRAME FACE (CENTER), THE MOUNTING PLATE WILL BEND TO FOLLOW THE CURVE. FOR ANGLED FRAME FACE (RIGHT) BEND THE PROJECTING BRACKET SLIGHTLY AS SHOWN SO THAT IT FITS INTO THE CENTER OF THE FRAME STILE



INSERT LARGE END OF RIVET THROUGH LMD MOUNTING PLATE INTO HOLE IN FRAME. TAP WITH HAMMER FROM THE DIRECTION SHOWN BY THE ARROW TO SEAT THE RIVET.

3. OPERATION

Finally note that tampering or mechanical failure of the unit is possible. For best system reliability therefore, the unit should be **periodically tested** to confirm that the output changes state as the Deadlock seats and is opened.

4. WIRING

The Deadlock Monitor has three wires (SPDT, form C) that are assigned by color as follows:

White = Common **Red = N.C.** **Blue = N.O.**

Because we're using the terms normally open and normally closed, it's necessary to define what we mean by "normal". **The normal condition of the Deadlock Monitor is when it is reporting secure** (the door is locked). So, for example, you'll read a closed circuit between White and Red if you meter the unit in the secure condition but you'll read open if you meter it in the alarm condition (door is open). **Maximum contact ratings are 2 Amps at 24V.**

CUT OUT TEMPLATE ON DOTTED LINE

