

MAGLOCK 1200 LBS with Lock Status and Indicator

June 2012

Installation Manual

1. Introduction

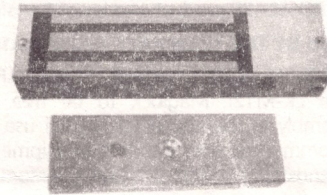
The LKM12L is a surface mounted magnetic lock series with 1200 lbs holding force. LKM12L has dual voltage (12 or 24 VDC) and low current consumption with anodized aluminum housing. LKM12L has a built-in voltage spike suppressor and no residual magnetism.

Monitored status output and timer versions are available.

Different types of bracket and housing are available to fit various mounting conditions.

LKM12L is compatible with EN55011:1998: Class B, EN60601-1-2:2002, EN61000-4-2:1995, EN61000-4-3:2002 & UL-S5351.

Figure 1: LKM012L



2. Technical Specifications

2.1 Electrical Characteristics

Power Supply Voltage	Dual Voltage: 12/24 VDC
Current Draw:	12 VDC: 500 mA 24 VDC: 250 mA

2.2 Physical Characteristics

Holding Force	~1200 lbs
Dimensions (L x W x D)	266 x 73 x 40 mm (10.5 x 2.87 x 1.57 in.)
Weight	25 kg (55.12 lbs)

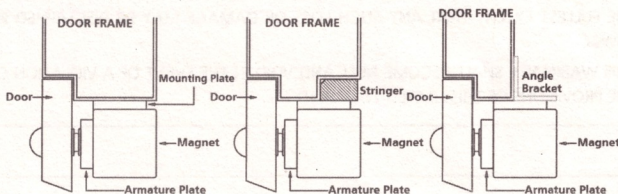
3. Mounting

Before attempting to install magnetic lock:

- Handle the equipment with care. Damaging the mating surfaces of the magnet or armature plate may reduce locking efficiency.
- The magnet mounts rigidly to the door frame. The armature plate mounts to the door with hardware. Kit provided that allows it to pivot about its center to compensate for door wear and misalignment.
- Template use must take place with the door in its normally closed position.
- Before installing, please add the thread locker to all screws. Firmly tighten the screws to avoid fastening loosen.

Typical mountings are shown in Figure 2.

Figure 2: Surface Mounting

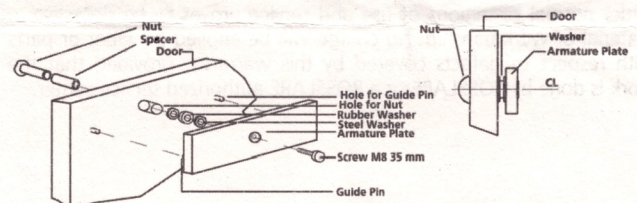


When fixing the armature plate:

- Do not fix the plate too tightly
- Make the rubber washer more flexible to make the armature plate automatically adjust its proper position with the magnet

Figure 3 shows how to mount an armature plate/surface.

Figure 3: Armature Plate/Surface Mounting



4. Wiring

4.1 Input

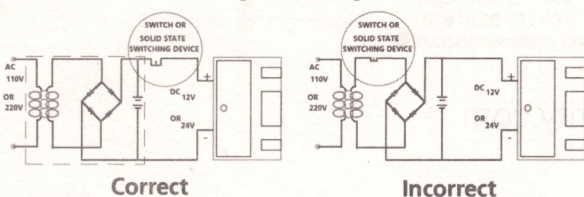
For a 12 VDC input, a maximum of 0.5 A power is needed.

For a 24 VDC input, a maximum of 0.25 A power is needed.

The unit should only be powered by a UL listed power supply.

If the power switch is not wired between the DC source voltage and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism (see Figure 8).

Figure 4: Wiring



To wire input:

- Connect the ground (-) lead from the power source to Terminal 2.
- Connect the positive (+) lead from the power source to Terminal 1.

- Set the jumper for either 12 or 24 VDC operation.

4.2 Contacts

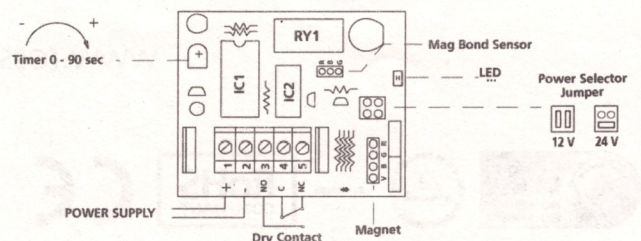
The relay dry contacts are rated 1 amp at 24 VDC for safe operation – do not exceed this rating

If you require a normally open switch, connect the wires from the system to terminal 4 and terminal 3.

If you require a normally closed switch, connect the wires from the system to terminal 4 and terminal 5.

Figure 7 shows various PCB schematics with the jumper settings.

Figure 5: PCB Schematic



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In the event of a breach of warranty, ROSSLARE will credit Customer with the price of the Product paid by Customer, provided that the warranty claim is delivered to ROSSLARE by the Customer during the warranty period in accordance with the terms of this warranty. Unless otherwise requested by a ROSSLARE representative, return of the failed product(s) is not immediately required.

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THIS WARRANTY SHALL BECOME NULL AND VOID IN THE EVENT OF A VIOLATION OF THE PROVISIONS OF THIS LIMITED WARRANTY.

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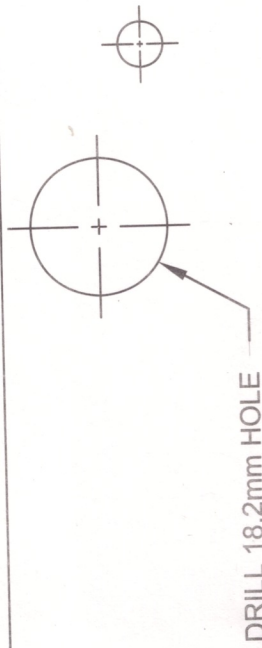


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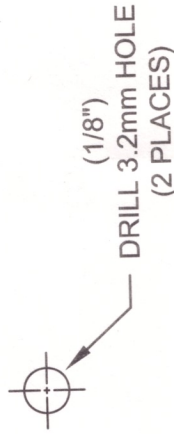


ROSSLARE
SECURITY PRODUCTS

TEMPLATE



DRILL 18.2mm HOLE



(1/8")
DRILL 3.2mm HOLE
(2 PLACES)

FOLD ON DOTTED LINE

PLACE AGAINST JAMB
OPPOSITE HINGES FOR
L.H.R.DOOR INSTALLATION

PLACE AGAINST JAMB
OPPOSITE HINGES FOR
R.H.R.DOOR INSTALLATION



(1/4")
6mm DIA ARMATURE GUIDE PINS HOLE-12.5mm DEEP



(1/2")



(11/16")
DRILL 16mm HOLE

MOUNTING INSTRUCTION

STEP1

- i' FOLD TEMPLATE ALONG DOTTED LINE.
- i' PLACE TEMPLATE AGAINST DOOR AND HEAD FRAME.
- i' DRILL HOLES AS INDICATED ON TEMPLATE.

STEP2

- i' MOUNT THE ARMATURE PLATE TO THE DOOR USING 1 RUBBER WASHER SANDWICHED BETWEEN 2 STEEL WASHERS (THE RUBBER WASHER AND 2 STEEL WASHERS ARE INSTALLED ON THE THROUGH SEX NUT BETWEEN THE ARMATURE PLATE AND DOOR.

STEP3

- i' INSTALL THE MOUNTING PLATE WITH 2 FLAT HEAD SCREWS AS INDICATED ON TEMPLATE.

STEP4

- i' INSTALL MAGNET TO MOUNTING PLATE WITH 2 M6 SCREWS SUPPLIED.

STEP5

- i' INSTALL ELECTRICAL WIRING PER INSTRUCTION SHEET.

STEP6

- i' TEST ALL FUNCTIONS OF THIS MODEL (SEE WIRING INSTRUCTION).

STEP7

- i' INSERT 2 LOCKING STOPPER IN TWO END PLATES.

STEP8