MG600/MG1200 Series

Electromagnetic Lock User's Guide

Description

The Electromagnetic Lock (Maglock) Series is a surface mounted magnetic lock assembly. It is a narrow profile model available in single lock format with various sizes (force) designed for standard installation on most types of doors.





Specifications

DESCRIPTION	MG1200	MG600	MG1200DT	MG600DT
Holding Force (lbs)	1200	600	1200	600
Lock	Single	Single	Single	Single
Input Voltage (VDC)	12 to 24	12 to 24	12 to 24	12 to 24
Current Draw: @ 12 VDC (amps)	0.505	0.505	0.505	0.505
@ 24 VDC (amps)	0.260	0.260	0.260	0.260
Relay Rating:@ 120 VAC (amps)(resistive)@ 30 VDC (watts)@ 60 VDC (amps)	N/A	N/A	N/A	N/A
	3W	3W	3W	3W
	N/A	N/A	N/A	N/A
Dimensions: inches (mm)	10.54 x 2.87 x 1.59	9.84 x 1.86 x 1.02	10.54 x 2.87 x 1.59	9.84 x 1.86 x 1.02
	(268 x 73 x 40.5)	(250 x 47.2 x 26)	(268 x 73 x 40.5)	(250 x 47.2 x 26)
Weight: Ibs	10.5	10.0	10.5	10.0
(kg)	4.8	4.5	4.8	4.5
Material: Lock Housing	Aluminum	Aluminum	Aluminum	Aluminum
Armature / Strike Plate	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel
Additional Features:	N/A	N/A	Door Status and Timer	Door Status and Timer

Precautions

- Shut off all power before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to insure moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards and building codes upon completion of installation.

WARNING

Warnings indicate potentially hazardous conditions, which if not avoided or corrected, may cause death or serious injury.

A CAUTION

Cautions indicate potentially hazardous conditions, which if not avoided or corrected, may cause minor or moderate injury. Cautions may also warn against unsafe practices.

NOTICE

Notices indicate a condition that may cause equipment or property damage only.

NOTICE

- 1. The product should only be powered by a UL listed power supply Regulated Power Limited power source.
- 2. Relay output is designated as Common.
- 3. Same Room Install Resistive.
- 4. Installation Location: Indoor Dry.
 - Installation & wiring in compliance with ANSI/NFPA70 requirements
 - Wiring must be cased to avoid outer cable damaged, affect the insulation distance
 - Terminal: 12~22AWG
- 5. If power switch is not wired between DC source voltage and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism.(see below)



Printed Circuit Board Schematic

Installation Tips

- 1. DO NOT touch the lock face with your hands.
- 2. Should the surface plating be damaged, use a soft, clean dry cloth or abrasive cloth to clean the lock face. DO NOT use sand paper. A rust inhibitor can be applied to the armature/strike plate and maglock assembly face.

Installation - Electical

- 1. Position the jumpers according to the input voltage, and then finish electrical connection to the door operator.
- 2. When the maglock assembly and armature/strike plate are mated, the junction is Normally Open and the LED will turn to green.
- 3. The remaining three terminals of the terminal block (COM/ NO/ NC) provide an auxiliary relay output which can be used as a door position switch.



** Important: Fix the armature plate not too tightly and make the rubber washer more flexible in order to make the armature plate automatically adjust its proper position with the magnet

Installation - Mechanical

- 1. Inspect the frame header to determine if an angle bracket or filler plate is required.
- 2. Fold the enclosed mounting template on the dotted line and then mark and drill holes as indicated. Drill two 1/8" (3.1 mm) holes at the locations marked 'B'. For single doors, locate the template against the door and header on the lock jamb side of the frame.
- 3. Disassemble the mounting plate from the maglock assembly using the enclosed hex key. Insert 2 screws into the slotted holes and secure the mounting plate to the doorframe using two of mounting screws. Do not tighten these screws fully until the maglock is properly aligned.
- 4. Gently tap (2) 3/16" (5mm) spring pins into the rear side of the armature(s). Drill matching holes on the door to receive these pins.
- 5. Align armature/strike plate to magnet, and then drill a 5/8" (16mm) hole in door for sexnut and aluminum reinforcement tube for hollow doors. Using the M8 x 1.25 x 40mm hex head screw and enclosed hex key, mount armature to door using two metal and one rubber washers.
- 6. Continue to fasten mounting plate to heading using remaining screws. Then, reassemble maglock assembly to mounting plate.
- 7. Route the enclosed wiring harness through the rectangular hole in the mounting plate. Make the electrical connection as shown below.
- 8. Make sure that armature/strike plate can be shaken slightly. This will permit full armature contact and maximize holding force.





For details regarding the limited warranty:

Customer Service

1-877-671-7011 www.allegion.com/us

LOCKNETICS

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