



M450/452

Electromagnetic Locks

Overview

The M400 Series line of electromagnetic locks from Schlage are designed with the customer in mind to be robust, easy to install, and secure. The new bayonet mounting feature makes installs easier, allowing the installer to have their hands free during the mounting process. There is no need to consider door handing as all the M400 Series electromagnetic locks are both non-handed and symmetrical, allowing optimum placement of the magnet no matter the application.

All M400 Series locks have automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. The M450 is tested and certified to meet or exceed UL1034 and BHMA 1000lb. hold force requirements.

The M450 electromagnetic lock comes in two configurations to meet your specific security needs. The M450 provides basic security, while the M450P provides intelligent sensing and reporting features needed to integrate with access control systems. Additional options are available for the M450P. Kits are available for top jam, double door, and glass door applications.



Features and Benefits

- Bayonet mount makes installation simpler by not requiring magnet to be held overhead while mounting screws are installed
- New design allows for RH/LH configuration in the field
- Armature mount allows armature to pivot compensating for slight opening imperfections
- Limited Lifetime Warranty
- UL1034 and BHMA Grade1 certified
- 1000 lb. Hold Force
- See page 2 for additional features and options

System Components
M450/452 Mag Lock

ADDITIONAL FEATURES

M450/M452

- **Automatic Voltage Selection (AVS)** senses the voltage applied to the lock and responds accordingly

M450P/M452P

- **Magnetic Bond Sensor (MBS)** monitors the strength of the bond between the lock and armature so you know the door is secure
- **Door Position Switch (DPS)** monitors whether the door is open or closed
- **Relock Time Delay (RTD)** provides a relock delay that is adjustable from 0.5 to 30 seconds

Optional (P models only)

- **Anti-Tamper Switch (ATS)** provides an indication that the cover of the magnet is securely fastened to the lock and that the on board circuitry is secure
- **MBS Indicator (LED)** provides visual indication of magnetic bond at the lock

OPTIONS (FOR ALL)

- Herculite Door Bracket
- Top Jamb (inswinging doors)

M450/M452 Electromagnetic Lock Specifications		
Specification	M450/M450P	M452/M452P
Holding Force	meets or exceeds BHMA standard of 1000 lbs.	1000 lbs. per door leaf
Input Voltage (Standard Unit)	12/24 VDC	
Current Draw (Amps Standard Unit)	.75A @ 12 VDC .38A @ 24 VDC	1.5A @ 12 VDC .75A @ 24 VDC
Automatic Dual Voltage	12/24 VDC	
Height	3"	3"
Length	10 - 1/4"	20 - 9/16"
Width	1 - 3/4"	1 - 3/4"
Weight (approximate)	10 lbs.	20 lbs.
Certifications	UL1034, UL10C, ANSI/BHMA156.23	
Temperature	0°-49° C (32°-120° F)	
Wire Gauge	14-22 AWG	

Filler Plates and Angle Brackets Specifications		
	M450	M452
Length	10-1/2"	20- 5/8"
Filler Plates		
Width x Height		
1-1/4" x 1/8"	4501F	4521F
1-1/4" x 1/4"	4502F	4522F
1-1/4" x 3/8"	4503F	4523F
1-1/4" x 1/2"	4504F	4524F
1-1/4" x 5/8"	4505F	4525F
3/4" x 1/2"	4506F	4526F
3/4" x 5/8"	4507F	4527F
3/4" x 3/4"	4508F	4528F
Angle Brackets		
Width x Height	Plate No.	Plate No.
1"x1"	4501A	4521A
1-1/2" x 1"	4502A	4522A
1-1/2" x 1-1/2"	4503A	4523A
1-1/2" x 2"	4504A	4524A
1-1/2" x 2 -1/2"	4505A	4525A

