

SCHLAGE

M490DE

Delayed egress
electromagnetic lock



Overview

The Schlage M490DE delayed egress locking system is designed to meet NFPA 101 Life Safety Code, while providing the same robust, easy-to-install, security of our M400 Series line of electromagnetic locks. The M490DE has a 15 second delayed egress timer with audible alarm which can be configured to trigger by an internal "plunger switch," or by external contacts, such as an request-to-exit push bar.

All M400 Series locks have automatic voltage sensing for 12 and 24 volts along with polarity protection to make wiring less complex. The M490DE is tested and certified to meet or exceed UL special locking arrangements and BHMA 1500 lb hold force requirements.

The M490DE electromagnetic lock comes in two configurations to meet your specific security needs. The M490DE provides basic security and delayed egress functionality, while the M490DEP provides intelligent sensing and reporting features needed to integrate with access control systems.

This easy-to-install, cost effective solution provides the highest access security and safety.

Features and benefits

- Bayonet mount makes installation simpler by not requiring magnet to be held overhead while mounting screws are installed
- 15 second delay - activated by internal plunger switch or auxiliary input
- Automatic voltage selection
- LED Indication with audible alerts
- Release input
- Reset input
- Fire alarm input
- UL special locking arrangements, ANSI/BHMA 156.23 Grade 1, UL10C Positive Pressure Fire Tests of Door Assemblies Certifications
- 1500 lbs hold force

Standard features

M490DE/M490DE-2

- Auto Voltage Selection (AVS) senses the voltage applied to lock and responds accordingly
- Internal plunger switch activates delayed egress timer

Additional options and accessories

- Herculite Door Bracket (HDB)

M490DEP/M490DEP-2

- 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
- Relocking time delay
- BOCA compliant (upon request)

M490DE electromagnetic delayed egress lock specifications

Specification	M490DE	M490DE-2
Holding force	Meets or exceeds BHMA standard of 1500 lbs	Meets or exceeds BHMA standard of 1500 lbs per door leaf
Input voltage (standard unit)	12/24 VDC	12/24 VDC
Current draw (amps standard unit)	.75A @ 12 VDC .45A @ 24 VDC	1.25A @ 12 VDC .76A @ 24 VDC
Height	3"	3"
Length	12 1/2"	25 1/16"
Width	3 1/16"	3 1/16"
Weight (approximate)	16 lbs	32 lbs
Certifications	UL294 special locking arrangement including BOCA, UL1034, UL10C, ANSI/BHMA156.23	
Temperature	0° to 49°C (32° to 120° F)	0° to 49°C (32° to 120° F)
Wire gauge	14-22 AWG	14-22 AWG

Filler plates

Electromagnetic lock	M490DE/M490DE-2
Length	12 1/2"
Width x Height	Plate no.
1 1/4" x 1/8"	4901F
1 1/4" x 1/4"	4902F
1 1/4" x 3/8"	4903F
1 1/4" x 1/2"	4904F
1 1/4" x 5/8"	4905F
3/4" x 1/2"	4906F
3/4" x 5/8"	4907F
3/4" x 3/4"	4908F

Angle brackets

Electromagnetic lock	M490DE/M490DE-2
Length	10 1/2"
Width x Height	Bracket no.
1" x 1"	4901A
1 1/2" x 1"	4902A
1 1/2" x 1 1/2"	4903A
1 1/2" x 2"	4904A
1 1/2" x 2 1/2"	4905A

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