

# 280+ Mortise Mounted Series

## Compact Design

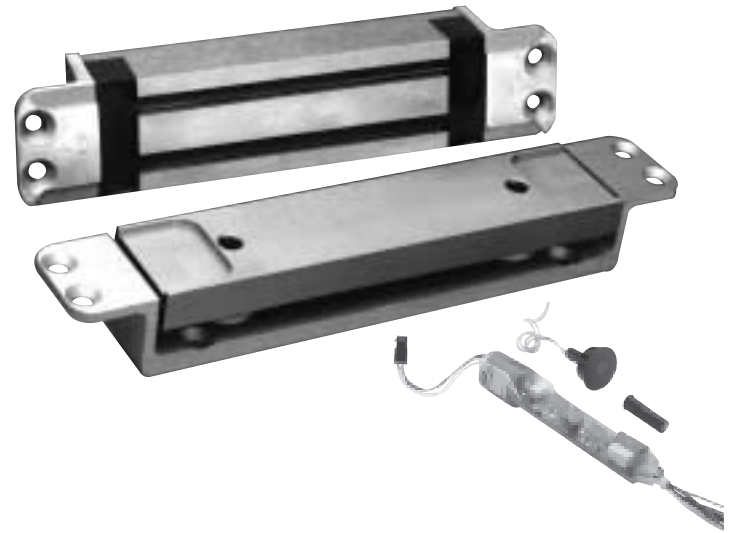
Locknetics provides the industry's most complete selection of electromagnetic locks. The 280+ Series Shear Lock features a patented design which is smaller, stronger and easier to install than earlier generations of Shear Locks, even in retrofit applications. The 280+ Series mortise design electromagnetic Shear Lock has an innovative "Power Plus" control module to overcome gaps of up to 1/4".

This mortise Shear Lock offers the advantage of a totally concealed locking mechanism, which provides superior security and appearance. With holding forces tested to 2700 lbs., the Locknetics 280+ Series provides extra high security and easy engagement of magnet and armature. The armature literally "jumps" to the magnet. The patented design engages locking tabs, secured to the magnet, with locking grooves in the armature. While the strength of this design is a major advantage, the flexibility in tolerance is even more important. This design allows for normal door and frame movement, assuming a good quality door and frame are used.

The compact size of the magnet fits into header construction with minimum preparation. It easily fits aluminum store front tube extrusions. The 280+ Shear Lock is ideal for hollow metal doors and frames, and Herculite doors as well.

The 280+ TRD model is available when armature adjustment is required from the edge of the door due to flush ceiling conditions.

The 280+ Series Shear Lock is UL 10C, CUL, and CSFM Listed and engineered to meet the ANSI/BHMA standard for electromagnetic locks. It has a 5 Year Warranty and is made in America in Forestville, CT.



### Features

- Innovative "Power Plus" control module provides force to overcome gaps of up to 1/4"
- 2700 lbs. of holding force
- Operates with standard, filtered, regulated power supply
- External Automatic Relock Switch
- Standard time delay on relock, adjustable 0-30 seconds
- Low temperature operation
- Microprocessor controlled
- Optional Magnetic Bond Sensor

### Options

**MBS** Magnetic Bond Sensor verifies proper armature contact with magnet face and detects reduced holding force – SPDT 1 amp @ 30 VDC

### Accessories

**DOOR STATUS SWITCHES** – External, concealed door status monitor switches

- 679-05** For hollow metal door and frame. SPDT 0.3 amp @ 30 VDC
- 679-05 HM** For wood door with hollow metal frame. SPDT 0.3 amp @ 30 VDC
- 679-05 WD** For wood door and wood frame. SPDT 0.3 amp @ 30 VDC

### Specifications

<b>HOLDING FORCE</b>	2700 lbs.			
<b>INPUT</b>	12 / 24 VDC - automatic selection			
<b>CURRENT DRAW</b>	.90A @ 12V .45A @ 24V			
<b>WIRING</b>	Leads - from control module			
<b>MTG TYPE</b>	Mortise			
<b>DIMENSIONS*</b>		L	H	D
Lock Body		7"	1-1/4"	1-1/2"
with Mounting Tabs		8-9/16"	1-1/4"	1-1/2"
Armature		6-1/8"	1/2"	1-3/8"
Yoke		8-1/4"	1"	1-3/8"
Yoke with Mounting Tabs		9-13/16"	1"	1-3/8"

\* In mortise applications, "H" refers to depth into the door or frame. "D" refers to the width of the part.

**280+ Suggested Architectural Specification:**

Locks shall be concealed, electromagnetic shear type; Locknetics Model 280+. Units shall be able to withstand heavy use on high frequency openings. The locks shall be inherently fail safe, releasing at the loss of power. Locks shall meet Underwriter Laboratories (UL) Listed ANSI/BHMA A156.23-1992 highest classification criteria including a minimum holding force of 2700 lbs. and inductive kickback shall not exceed 53 volts peak. Locks used on labeled fire door assemblies shall be listed or labeled by a nationally recognized independent testing laboratory. Locks and mating armatures shall be fully concealed. The lock shall be mortised into the door frame and the armature mortised into the door. The armature shall be adjustable such that reasonable installation alignment errors and door settling can be compensated for. The armature shall be capable of overcoming up to a 1/4 inch gap. Each magnetic lock shall operate at 12 VDC to 24 VDC, automatically selected. Electrical current draw shall not exceed 0.45 amps at 24 VDC and 0.9 at 12 VDC from a filtered, regulated power supply. Each lock shall continuously monitor its respective door position keeping the lock de-energized while the door is open. The lock shall have a 0-30 second "delay-in-relock" equipped standard. The "delay-in-relock" shall keep the lock de-energized a defined period of time insuring the door is closed before the lock is energized. Locks shall be equipped with a SPDT Magnetic Bond Sensor (MBS) to monitor holding force, insuring adequate security. The magnetic bond sensor shall respond to low voltage and foreign material or damage to mating surfaces that create a critical loss of holding force. The bond sensor shall be fully concealed within the electromagnet to resist tampering or damage. The bond switch shall be rated a minimum of 1 amp @ 30 VDC (resistive load). Locks shall carry a manufacturer's limited warranty of five years on the magnetic coil assembly and one year on the electronic control module.