

ELECTROMAGNETIC LOCKS

SHEAR ALIGNING MAGNALOCK SERIES



CONCEALED MOUNTING IN ALL DOOR TYPES

Securitron's Shear Aligning Magnalock (SAM) provides 1,200 pounds holding force and fully concealed mounting in aluminum, wood and steel doors. Concealed lock mounting is an important feature, enhancing aesthetic appearance. The lock is mortised into the frame, and the floating adjustable strike is mortised into the door.

Additionally, the SAM can be installed in any position on the door—top, side, or bottom. Templates are available to door manufacturers for door and frame preparation prior to installation.

The SAM is ideal for swing-through doors and sliding doors as well. A unique benefit of the SAM's physical design is that it functions equally well on doors that swing to close or doors that slide to close.

HOW MAGNETIC SHEAR LOCKS WORK

A traditional magnetic lock secures a door by preventing the strike from being pulled **away** from the magnet body. A shear lock prevents the strike from being pulled **across** the magnet body. To accomplish this a shear lock must add mechanical interference. The design of the mechanical interference is critical to the function of the shear lock.

THE SECURITRON SOLUTION

The SAM locks by seating two conical buttons located on opposite corners of the strike plate into matching holes on each end of the magnet body. The SAM never binds under pressure, is not sensitive to door alignment, and does not require door position sensing or auxiliary timing circuitry.

ELECTROMAGNETIC LOCKS

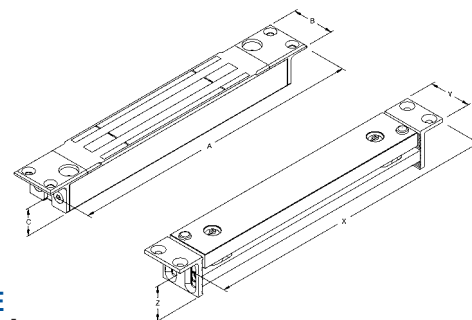
SHEAR ALIGNING MAGNALOCK SERIES



SAM

SAM APPLICATIONS

SAM, the Shear Aligning Magnalock provides 1,200 pounds holding force and mounts fully concealed in wood, steel or aluminum doors. Concealed mounting is extremely pertinent to both higher security and an aesthetic finished appearance. The lock is mortised into the frame, and the strike is mortised into the door. SAM can also be installed in any position on the door—top, side or bottom. It is ideal for swing-through and sliding doors because of its unique, highly engineered design.



PRODUCT FEATURES

- Instant release circuit—no residual magnetism
- Fully sealed electronics—tamper proof & weather proof
- Mounted using steel machine screws into blind finishing nuts
- Architectural brushed stainless steel finish (US32D/630)
- All ferrous metal surfaces plated to MIL specification
- Ten feet [3.05m] of jacketed, stranded conductor
- Automatic dual voltage, no field adjustment required
- **UL Listed**

HOLDING FORCE

1,200 lbs. [546 Kg.]

CURRENT DRAW and VOLTAGE

350 mA at 12 VDC; or 175 mA at 24 VDC

DIMENSIONS

Magnet: 10 7/8" x 1 1/2" x 1 1/8" [276mm x 38mm x 29mm]

Strike: 10 7/8" x 1 1/2" x 1 3/8" [276mm x 38mm x 35mm]

HOW TO ORDER

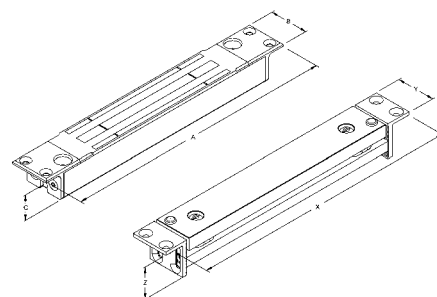
PART#	DESCRIPTION
SAM	Shear Aligning Magnalock



SAM2-24

SAM2-24 APPLICATIONS

SAM2, the Mini Shear Aligning Magnalock provides 600 pounds holding force and fully concealed mounting for smaller applications, like cabinet doors and sliding closet doors. The lock is mortised into the frame, and the strike is mortised into the door. SAM2 is available only in 24 VDC, and is not available with the Senstat (SC) option.



PRODUCT FEATURES

- Smaller dimensions for difficult installation areas
- Instant release circuit—no residual magnetism
- Fully sealed electronics—tamper proof & weather proof
- Mounted using steel machine screws into blind finishing nuts
- Architectural brushed stainless steel finish (US32D/630)
- All ferrous metal surfaces plated to MIL specification
- Ten feet [3.05m] of jacketed, stranded conductor
- **UL Listed**

HOLDING FORCE

600 lbs. [273 Kg.]

CURRENT DRAW and VOLTAGE

62 mA at 24 VDC only

DIMENSIONS

Magnet: 7 1/8" x 1 1/8" x 15/16" [181mm x 29mm x 24mm]


Strike: 7 1/8" x 1 1/8" x 1" [181mm x 29mm x 25mm]

HOW TO ORDER

PART#	DESCRIPTION
SAM2-24	Mini SAM 24VDC

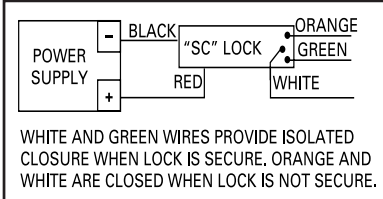
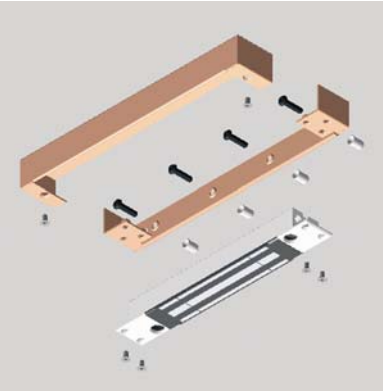
ELECTROMAGNETIC LOCKS

SHEAR ALIGNING MAGNALOCK SERIES STANDARD MODELS

ITEM	PART#	ORDERING DESCRIPTION
	SAM	1,200 lb. Shear Aligning Magnalock
	SAM2-24	600 lb. Mini SAM 24 VDC

ELECTROMAGNETIC LOCKS

SHEAR ALIGNING MAGNALOCK SERIES OPTIONS and HARDWARE

ITEM	APPLICATION USE	PART#	ORDERING DESCRIPTION
<p>SENSTAT: A SELF-MONITORING SAM</p>  <p>WHITE AND GREEN WIRES PROVIDE ISOLATED CLOSURE WHEN LOCK IS SECURE. ORANGE AND WHITE ARE CLOSED WHEN LOCK IS NOT SECURE.</p> <p><i>Wiring diagram for Senstat Shear Aligning Magnalocks.</i></p>	<p>The lock that monitors itself! Securitron's patented Senstat option provides a lock status sensing signal which positively indicates that the door is secure. This interfaces with access control or alarm systems and is superior to the commonly used door position switch which indicates that the door is closed but not that it is secure.</p> <p>All Senstat Magnalocks use Form 'C' isolated contacts.</p>	SAMSC	SAM Senstat
<p>SAM SURFACE MOUNT KIT</p> 	<p>For specialty applications, the optional surface mount kit permits the SAM magnet, strike, or both to be surface mounted when mortising is not possible.</p> <p>12 7/16" x 1 1/2" x 2 1/8" [316mm x 38mm x 54mm]</p>	SMLS SMSS	Surface Mount Lock Housing Surface Mount Strike Housing

SAM APPROVALS and LISTINGS

UL: FWAX-SA6635 & GWXT-R13976
 UL Canada: FWAX7-SA6635 & GWXT7-R13976
 California State Fire Marshall: 3374-0923:101 & 3374-0923:103

PATENTS

U.S. Patent #6,135,515
 Other US and Foreign Patents Pending