

SCHLAGE

320 Series Electromagnetic Lock

Installation Instructions



Customer Service

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

Description	Product Spe	ecifications			
The 320M (MiniLine, Electromagnetic Lock) is a medium security, mortise mounted, high performance lock, which was designed for sliding doors. Because the 320M has no moving parts, it requires minimal maintenance. The 320M meets Security and Life Safety requirements and is Field Selectable for 12VDC or 24VDC. Maintenance	Voltage Current Rated Holding Force	12VDC or 24VDC Field Selectable 0.225A @ 12VDC 0.450A @ 24VDC (for metal frames only, NOT RECOMMENDED FOR WOOD FRAMES) 400lbs @12VDC, 550lbs @ 24VDC			
The electromagnet and armature are plated for corrosion resistance and require little maintenance.	General Information				
For maximum performance, it is recommended that the electromagnet and armature be occasionally cleaned. Perform the following as required: Clean all functional surfaces of the electromagnet and armature by applying a light coating of silicon lubricant and wipe with a clean cloth.	 Carefully handle all equipment. Damage to mating surfaces of electromagnet or armature might reduce locking efficiency. The electromagnet is mortised into door frame vertically. Armature mounts to door and is designed to pivot about its center, compensating for any door misalignment. When installing an electromagnetic lock with DSM option, make certain permanent magnet is directly opposite DSM switch in magnet assembly. 				
	Failure to secure armature to door may result in serious injury to door user. For safety, security and proper operation, sex bolt/nut assembly, washers and spacers must be assembled in order illustrated and securely tightened 1/8 to 1/4 turn past hand-tight.				

Model 320M

Door and frame preparation

Using mounting block:













Installation

1 1a Orient mounting blocks as shown for your installation. The 1b Install magnet into frame. magnet should be flush with frame after installation. OR 1c Magnet should be completely flush with frame. 0) 0 Ô 0 0 0 0 2 Install armature into door. Mounting directly into sliding door: Using mounting block: 2a Install armature mounting block if the door has not been 2a Install armature. otherwise reinforced. Inside Outside **A** 0 0 2b Install armature. 0 00 0



4 Adjust lock as necessary.

ATD (Adjustable Time Delay)

ATD can be set to delay relock from 0 to 30 seconds. To increase time, turn adjustment potentiometer clockwise (CW). To decrease time, turn adjustment potentiometer counterclockwise (CCW). ATD will operate whenever input power is interrupted and then reapplied. For potentiometer location, see Fig. 1 and Fig. 2.

DSM (Door Status Switch)

The DSM provides a signal to indicate whether door is open or closed. The lock's mounting instructions should be followed closely to ensure reliable performance. DSM provides a signal via a set of form "C" dry contacts rated 100mA, resistive at 24VDC. These contacts, which are labeled in an open door condition are accessed by three (3) wires:

- White N.O. (Normally Open)
- Black C (Common)
- Red N.C. (Normally Closed).

When the door closes, black and white wire contacts close and black and red wire contacts open. See Fig. 4, Fig. 5 and Fig. 6.



MBS (Magnetic Bond Sensor)

The MBS senses whether sufficient magnetic holding force exists for adequate locking. It responds to low line voltage, foreign materials in magnetic gap, and damaged or dirty magnet and/or armature surfaces. The MBS option provides a signal via a set of form "C" dry contacts rated 1A @ 30VDC resistive load maximum. Dry contacts, which are labeled in a deenergized/no bond condition are accessed by three (3) wires:

- Green N.O. (Normally Open)
- Brown C (Common)
- Blue N.C. (Normally Closed)

Once the lock is energized with magnet and armature properly bonded, C and N.O. contacts close and C and N.C. contacts open. See Fig. 7, Fig. 8 and Fig. 9.







Additional Notes:		Revision History					Revision Description:				
1. Final folded size may vary to fit in box.	D	E	F	G	н	J	J > Revised artwork	ırtwork			
	009827	013686	013687	23854	046613	081608					
	Material	Material White Paper					Edited By	Approved By	EC Number	Release Date	
							M. Sasso	D. Toppins	081608	08-12-19	
	Notes	Notes 1. printed two sides 2. printed black 3. stapled in top left corner 4. tolerance ± .06 5. printed in country may vary 6. drawings not to scale					Title				
	1. printe						SHEET, INSTALLATION, 320M				
	3. staple						Creation Date 11-12-2012	Number Revision		Revision	
	4. tolerar							30020		J	
	6. drawir						Created By P. Bockelman	Activity 3899 Hancock Expwy			
							Software: InDesign CS6	Security, CO 80911		© Allegion 2019	