

MAGS4200MM...



Mounting Instructions

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D0129600_01.2021

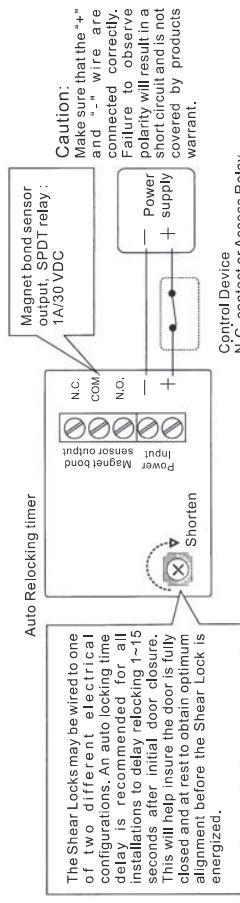
Important Notes

Install the magnet assembly into the door frame before installation the armature assembly into the door leaf. The magnet assembly requires space to run wires, as well as space for the recesses portion of the unit. However, make sure that the position selected for the magnet assembly leaves enough room on the door to install the armature assembly. Unbalanced air conditioning (stack pressure) can hinder door alignment and must be corrected to help insure positive locking. It is important to note that the Shear Locks need a regulated 12VDC (or 24VDC) at the lock, and use the highest quality door closer only. Positive centering door closers are required for all double acting door applicators to help attain consistent dead center alignment. Also the door latching problems must be corrected prior to installation.

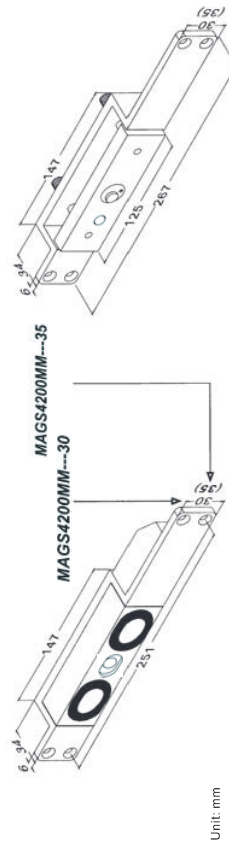
Specifications

| | |
|----------------------|--|
| Holding Force | 2,200lbs--Max.2,700lbs |
| Power Input | 12-24VDC (self-regulating) |
| Current Draw | Pull in:1.85A, Holding:0.45 AMP/12 VDC Pull in:1.1A, Holding:0.25 AMP/24 VDC (At temperature 20°C) Note: The unit does not require initial voltage increase to operate. |
| Finish | Magnet and Armature: Zinc plated, Housing: Black powder coated |
| Monitoring Output | Magnet bond sensor output, SPDT rating 1 AMP/30 VDC |
| Door Gap | 3mm(1/8") maximum |
| Operating Temp | -30C to +50C |
| Auto Relocking timer | 1-15 seconds adjustable (Default: 3 see) |

Connecting Diagram



Dimensions

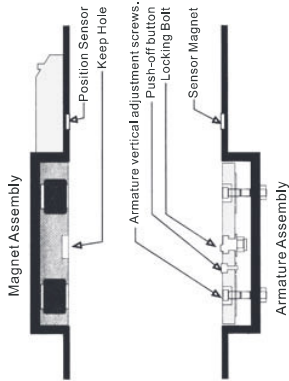


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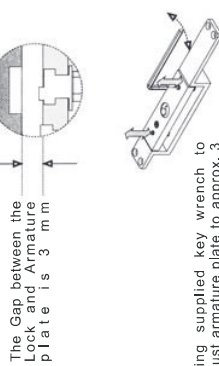
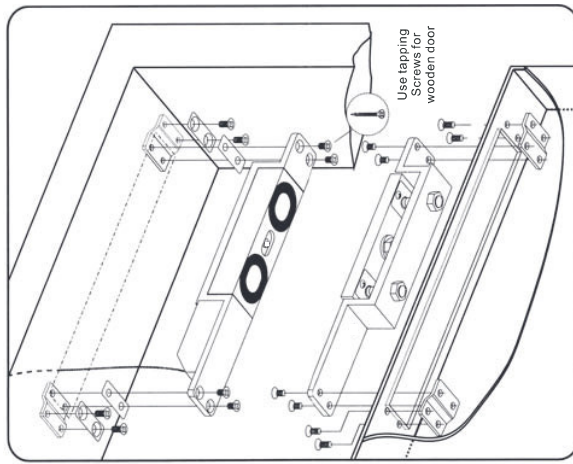
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Flush Installation

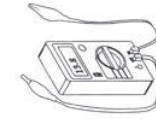
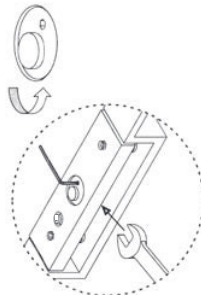


1. Make sure the gap between the door top rail and frame header is within 3mm, adjust the gap as required.
2. Adjust single acting door and door closer to insure the door settles immediately and is fully closed. (Adjust double acting door and POSITIVE CENTERING DOOR CLOSER to insure the door settles immediately and is fully closed and rest in the dead center of the frame).
3. Locate the vertical centerline of the magnet and armature as possible to the leading door edge.
4. Determine the horizontal centerline of the door top rail thickness. The Armature centerline will be the same. Mark the door per template.
5. Before determining the frame header centerline single acting door must be fully closed. Double acting doors must be fully closed and rest in the dead center of the frame. Mark the frame header per the template. Prepare the door and frame per the template.
6. When installing, mark the timer adjustment as required and test the locking time delay prior to mounting in the frame. The locking time delay is field adjustable for 1-6 seconds and is factory set at approximately 3 seconds.
7. Install the Shear lock and armature with the auto relock switch assembly towards the leading edge of the door. For proper operation the armature must be adjusted upward as close as possible and parallel to the Shear Lock without interfering with opening and closing of the door. Proper operation cannot be expected with more than 3 mm gap between the armature and the magnet. Use the key wrench provided to adjust the armature vertical adjustment screws.
8. With the door closed turn the lock power on, check the lateral alignment. The armature locking bolt should be centered to magnet keep hole. Adjust the locking time delay to avoid early activation and help insure positive locking on door closure. Adjust inward to delay Shear Lock activation. Don't adjust higher than the armature rest position.
9. Repeat steps 7,8 as necessary following shear lock replacement. Cycle the door and Shear Lock several times after the completion of the installation.



Trouble Shooting

| Problems | Possible Cause | Solution |
|--|--|---|
| Door does not lock | The gap between the Armature Plate and the Shear Lock is over. | Adjust the Armature Plate and arrange the gap between the Armature Plate and the Shear Lock within 3mm. |
| | No power. | Electrically Checked with an Ammeter, it must be powered with the correct input voltage and checked to see if it draws the specified current. |
| | The door leaf does not return back at the correct position. | Positive centering door closers are required for all double acting door applications to help attain consistent dead center alignment. |
| | The gap between the Armature Plate and the Shear Lock is over. | Adjust the Armature Plate and arrange the gap between the Armature Plate and the Shear Lock within 3mm. |
| The Armature Plate keep repeating the magnetic attracting motion, | Voltage too low. | Electrically Checked with an Ammeter, it must be powered with the correct input voltage and checked to see if it draws the specified current. |
| | The gap between the Armature Plate and the Shear Lock is unequal. | Adjust the Armature Plate and make sure the gap between the Armature Plate and the Shear Lock is equal. |
| | The locking bolt does not correctly seat inside the keep hole of the Shear Lock. | Adjust the locking bolt of the Armature Plate and make sure it correctly seats inside the keep hole of the Shear Lock. |
| | The position of the locking bolt is not correct. | Adjust the locking bolt of the Armature Plate and make sure it correctly seats inside the keep hole of the Shear Lock. |
| The Armature Plate is not at the right position and the locking bolt cannot seat correctly into the keep hole of the Shear Lock. | The gap between the Armature Plate and the Shear Lock is unequal. | Adjust the Armature Plate and make sure the gap between the Armature Plate and the Shear Lock is equal. |
| | The setting of 'Auto Relocking time delay' is too short. | Adjust the setting of 'Locking time delay'. |



Use spanner and allen wrench to release the Locking Bolt on the Armature Plate. Rotate the position of the Locking Bolt in order to correctly seat inside the keep hole of the Shear Lock.

Make sure the gap between the Shear Lock and the Armature Plate are the same while adjusting the gap.

Since the current draw, which operates the Shear Lock, is large, it is necessary to make sure the condition of the wire is capable for long distance usage. It is also necessary to make sure the output current of the Shear Lock is sufficient for the power that the manufacturer listed.

Distance in feet from power source to farthest locking device

| AMPS | 25f | 50f | 75f | 100f | 150f | 200f | 250f | 300f | 400f | 500f | 1000f |
|-------------------------------|-----|-----|-----|------|------|------|------|------|------|------|-------|
| 0.25 | 18 | 18 | 18 | 18 | 16 | 16 | 16 | 14 | 14 | 12 | |
| 0.50 | 18 | 18 | 18 | 16 | 16 | 14 | 12 | | | | |
| Minimum Wire Gauge for 12 VDC | 18 | 18 | 16 | 16 | 14 | 12 | 12 | | | | |
| 1.00 | 18 | 16 | 14 | 14 | 14 | 12 | | | | | |
| 1.50 | 18 | 14 | 12 | 12 | 12 | | | | | | |
| 2.00 | 16 | 14 | 12 | 12 | | | | | | | |
| AMPS | 25f | 50f | 75f | 100f | 150f | 200f | 250f | 300f | 400f | 500f | 1000f |
| 0.25 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 16 | 16 |
| 0.50 | 18 | 18 | 18 | 18 | 16 | 16 | 16 | 14 | 14 | 12 | |
| 0.75 | 18 | 18 | 16 | 16 | 16 | 14 | 14 | 12 | 12 | | |
| 1.00 | 18 | 16 | 16 | 16 | 14 | 14 | 12 | 12 | | | |
| 1.50 | 18 | 16 | 14 | 14 | 14 | 12 | | | | | |
| 2.00 | 16 | 14 | 14 | 14 | 12 | | | | | | |