

Shear Lock Installation Instruction

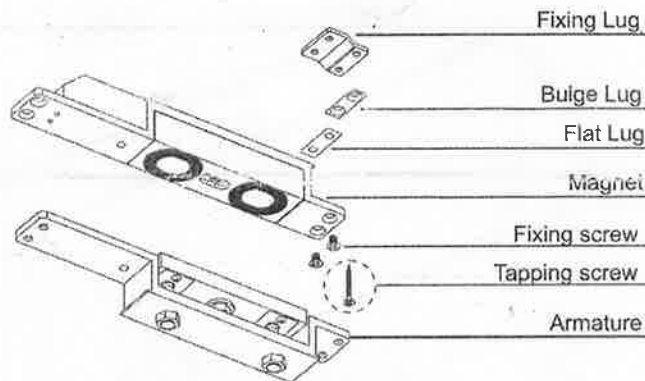
Important Notes

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.

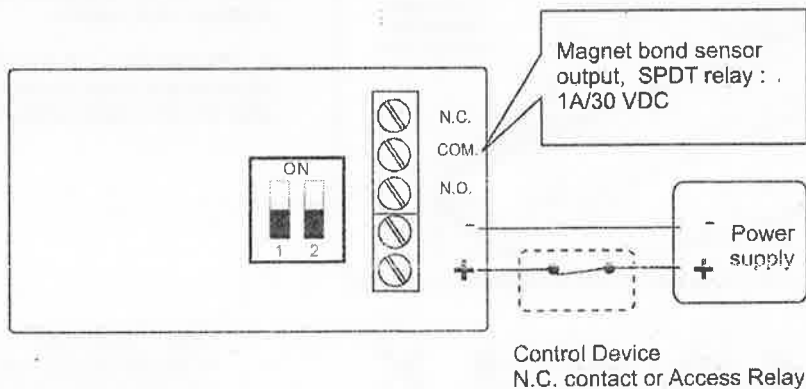
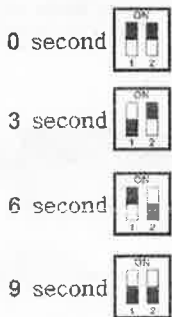
Specifications

Shear Holding Force	2,000lbs
Power Input	12~24VDC (self-regulating)
Current Draw	Pull in: 1.85A ,Holding: 0.45AMP/12VDC Pull in: 1.1A ,Holding: 0.25AMP/24VDC Pull in: 1.8A ,Holding: 0.45AMP/12VDC Pull in: 1.1A ,Holding: 0.25AMP/24VDC (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 1AMP/30VDC dry contact
Door Gap	3mm (1/8") maximum
Operating Temp	-30°C to +50°C
Auto Relocking timer	1~6 seconds adjustable (Default: 3 sec)



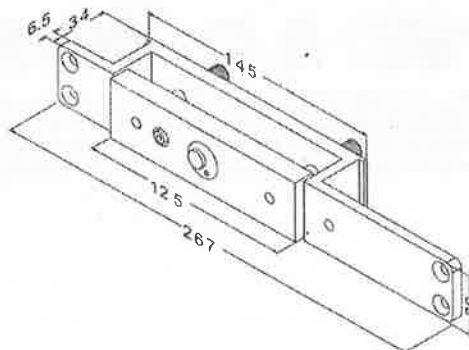
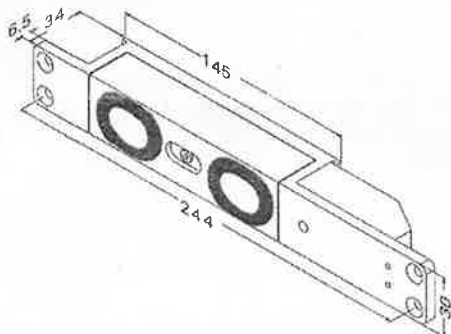
Connecting Diagram

Relock Time Setting



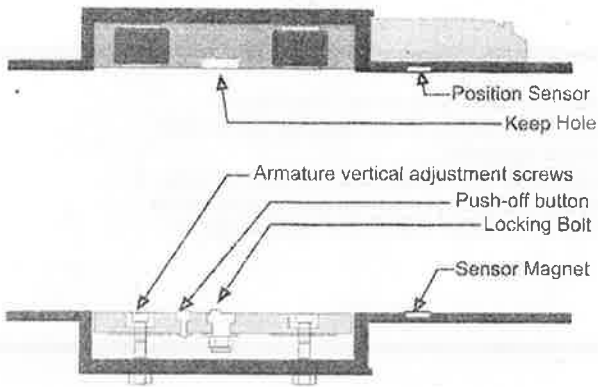
Caution:
Make sure that the "+" and "-" wire are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by products warrant.

Dimensions

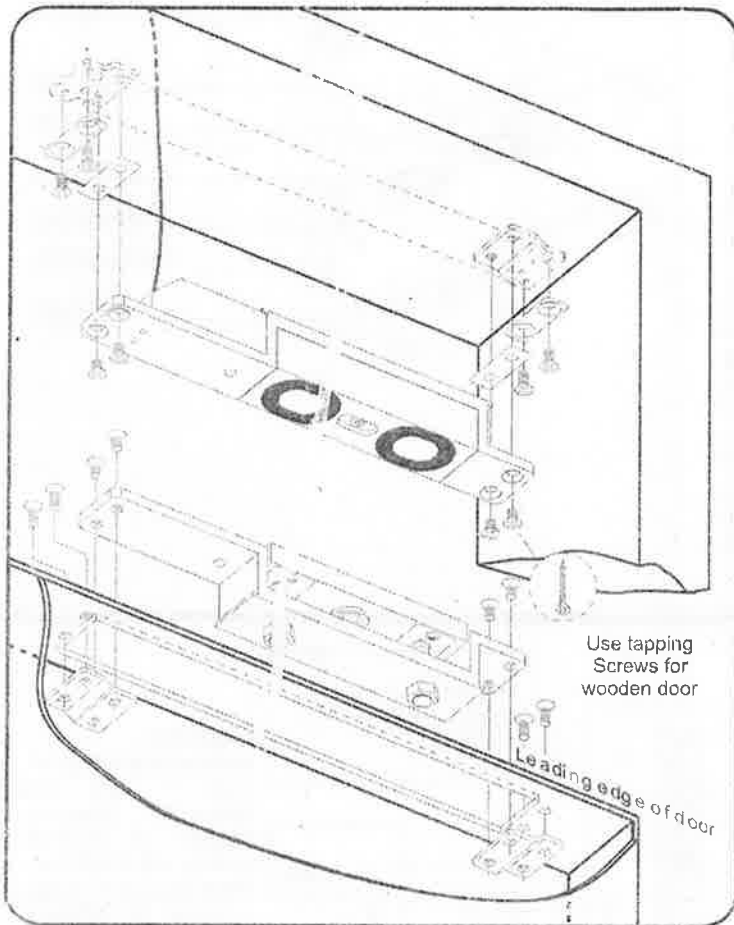


Unit: mm

Magnet Assembly



Armature Assembly



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 LOCK, 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 0 3 6 9 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.



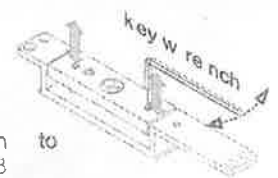
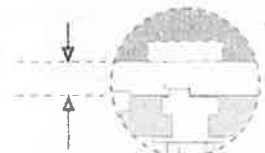
Bulge Lugs is used when fixing screws cannot fix Fixing Lugs on the door frame due to the shallow door frame. When the situation happens, use the Bulge Lugs to increase the thickness of the frame.



Flat Lugs is used when the door frame is deep, and to prevent the Electromagnetic Lock or the Armature Plate caved in, add flat lugs to raise the plane (level) of the Electromagnetic Lock face or the Armature Plate face to the door frame surface.



The Maximum Gap between the Lock and Armature plate is 3 mm



Using supplied key wrench to adjust armature plate to approx. 3 mm of gap between magnet and armature.