

Description:

The EM 6900 GL-AH B series are SURFACE mounting. The EM 6900 GL-AH B model uses a miniature LED and a large strip LED for long distance door monitoring and smarter look (see LED feature p5).

The EM 6900 GL-AH B series needs DC and stabilised power. The voltage (measured at the lock) must be correct for the magnet to retain the armature plate with its highest holding force capacity. When an external pressure is applied, the combined technology of magnetic force and swivel pin held inside the magnet hole by metal marbles will ensure a holding force of > 8000 N. Cutting the power to the lock will remove the magnetic force and the marbles release themselves from pin head to unlock the door. The EM 6900 GL-AH B works in 12 or 24 V DC. A reed contact is integrated for a complete locking monitoring. This monitoring only works if the armature plate is fitted flexibly and if the power supply is correct at the lock input. Another reed contact provides the door status. The exit button (or keypad, prox reader...) must be wired on 12 V DC (or 24 V DC), not on the input wiring of power supply.

Also, this lock is equipped with a contact able to detect any pressure on the door locked. This contact could be connected to an alarm system or local alarm to warn BEFORE the access is opened without authorisation. A built-in buzzer will sound simultaneously.

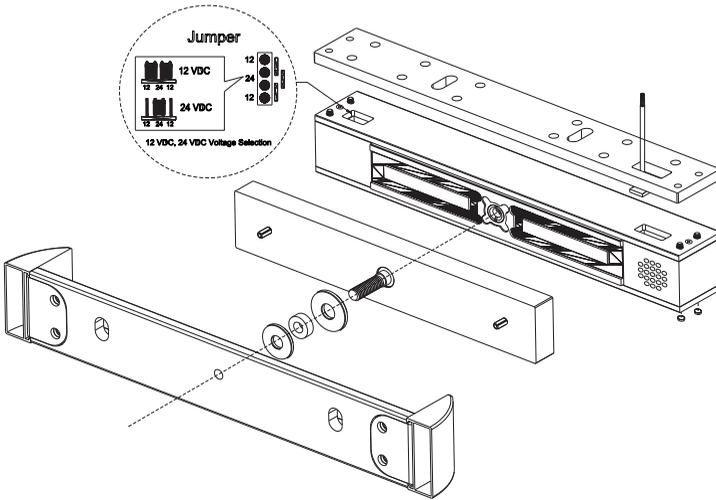
The PSU output must not be connected to the earth but isolated to avoid any kind of electric sparks, therefore damaging the lock and its surfaces

Wiring and Power Input 24 V DC or 12 V DC:

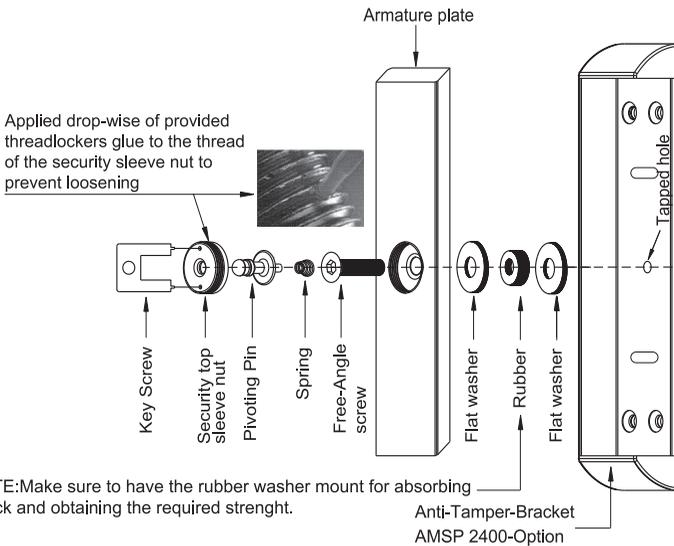
	NO - DSS (BLUE)			NO - DSS (BLUE)	30 VDC max 0.3 A max, 10 W max
				NO (PURPLE)	EW, 50VDC, 0.3A max
Buzzer Enabled - Close	— (BROWN)			COM (ORANGE)	
Buzzer Disabled - Open	— (WHITE)			NC (PINK)	
	NO-LSS (YELLOW)			NO-LSS (YELLOW)	30 VDC max 0.3 A max, 10 W max
	12/24 VDC 12VDC/0.36A, 24VDC/0.18A	+(RED)		- (BLACK)	



To prevent irreversible damage to the unit, ensure that wiring is connected correctly before supplying power to the mechanical electro magnet.



Swivel Pin Assembly

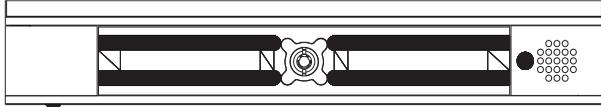


To assure a solid locking from the magnet and its armature plate, you need to mount the latter with FLEXIBILITY with help from the rubber washer supplied. A over tighten central screw or not enough power supply are the two main reasons why a magnet will not work with efficiency.

EM 6900 GL-AH B

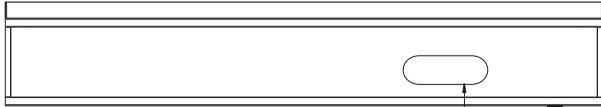
Light Feature

EM 6900 GL-AH B
Front



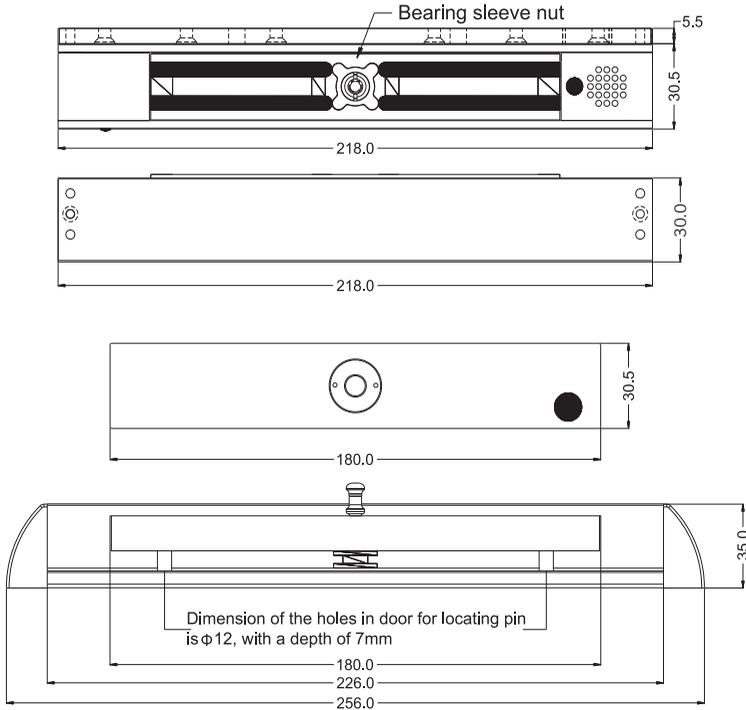
EM 6900 GL-AH B model LED light

EM 6900 GL-AH B
Back



EM 6900 GL-AH B model (Light Panel)

Installation dimension



Important safety precaution

Secure firmly the EM 6900 GL-AH B Mechanical Electro Magnet on the door frame. The provided screws must be used in accordance with the frame or support material. Also, the screws must be checked periodically to avoid looseness.

Maintenance

The surface of contact between the mechanical electro magnet and the armature plate must be kept cleaned. Surfaces should be cleaned periodically with a non-abrasive cleaner. Do not use cleaning chemical products such as cleaning solvents or varnish. This will lead to serious problems releasing the armature plate from the magnet, damaging the mechanism and causing safety problems.

Trouble Shooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Door will not lock	No DC voltage to lock.	Check power and loose wiring
	Wrong wire connection.	Check wiring, refer to wiring instruction.
	Bearing sleeve nut rise higher than magnet flat surface.	Screw in the bearing sleeve nut at level with surface with the provided security screw.
Holding Force reduced	Bad physical contact between armature plate and magnet surface.	Make sure than surface contact is cleaned and well aligned with the armature plate
There is a delay in door release when power off	The power switch-off is disturbed by the power supply stabilisation.	The power cut must be done between the PSU and lock. Not at the AC input of the PSU.

Note: From factory, the voltage setting is 24 V DC. For 12 V DC installation, please select the jumper correctly.