



# FEM2700WM Weather Resistant Electromagnetic Lock Installation Instructions

**Voltage:** 12/VDC configurable

**Current:** 500mA @ 12VDC / 250mA @ 24VDC

**Holding Force:** Tested up to 290kg

**IP Rating:** Rated IP68

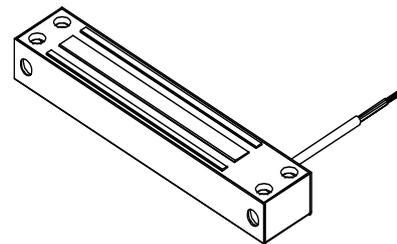
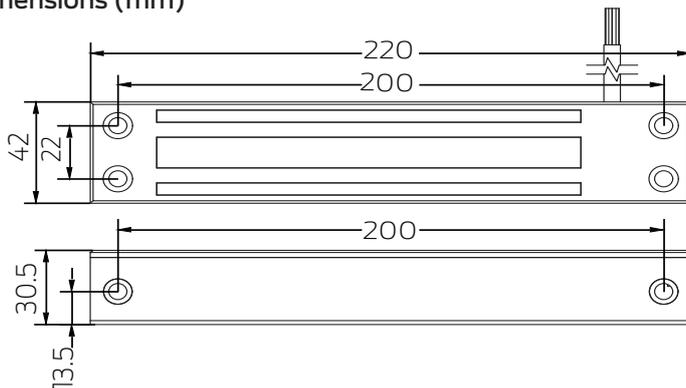
**Housing:** Stainless Steel

**Monitoring:** Lock Status Sensor, contacts rated max 3W (max switching contact at 0.25A) at 30VDC/AC for safe operation. Do not exceed this rating.

## Wiring Connections

12VDC	24VDC	Lock Status Sensor

## Dimensions (mm)



## Installations Tips

Armature plate must remain flexible

- The armature plate must remain movable to allow surface alignment with the magnet face.
- The electromagnetic lock will lose holding force without this floating alignment.

Do not trim the rubber washers

- Trimming the rubber washers will adversely affect the release of the armature plate from the electromagnetic.

Maintenance

- The contacting surface of the electromagnet and armature plate must be kept free of contaminating materials.
- Surfaces should be cleaned periodically with non-abrasive cleaner. Do not spray the electromagnet or armature plate surface with any lacquer chemical, as this will create problems with the release of the magnetic lock and armature plate, and might cause serious safety problems.



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## Important Safety Requirements

1. Apply thread-locker glue (e.g., Loctite) to the thread of the Armature-Plate-Fixing Screw (Allen-Screw) to prevent from becoming loose.
2. Locks should be inspected at regular intervals to ensure safe functionality in conjunction with the door environment.
3. The supplied Allen screws cater for maximum door-thickness of 45mm.

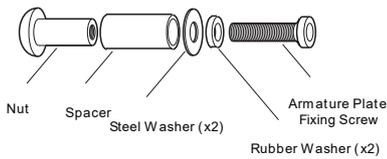
## Troubleshooting

Problem	Possible Cause	Solution
Door will not lock	No DC voltage to lock. Loose or bad connections.	Check the power supply. Check the wiring to the lock.
Reduced holding force	Bad physical contact between the armature plate and face of magnet.	Ensure mating surfaces are clean and in proper alignment and the armature plate floats freely. Check magnetic lock for low voltage or wrong voltage setting.
Delay in door release	The door release switch is not between the magnetic lock and the power supply.	Re-wire circuit switch between magnetic lock and power source.
LSS not working	Armature plate is out of alignment.	Check and re-wire the door release switch accordingly.

## Accessories

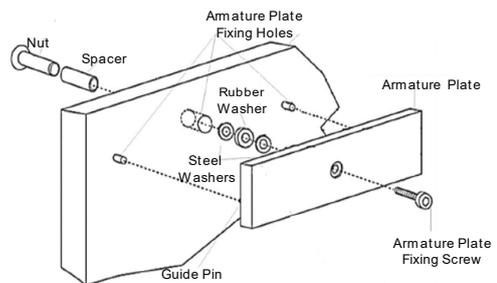
AMZB2700	L & Z bracket
UGB185	U bracket for glass door

### ARMATURE PLATE FIXING KIT COMPONENTS



ARMATURE PLATES MUST BE INSTALLED WITH THE COMPONENTS SHOWN ABOVE.  
THESE COMPONENTS ARE PROVIDED WITH EACH ELECTROMAGNETIC LOCK.  
TO AVOID MALFUNCTION OF THE LOCK, DO NOT USE PARTS OTHER THAN THOSE PROVIDED ABOVE.

### ARMATURE PLATE MOUNTING DETAIL



### FIXING THE ARMATURE PLATE ON FRAMELESS GLASS DOORS

