Single Door Explosion-proof Magnetic Lock Instructions

Model: EP 280FW-EX

ATEX

Product Overview

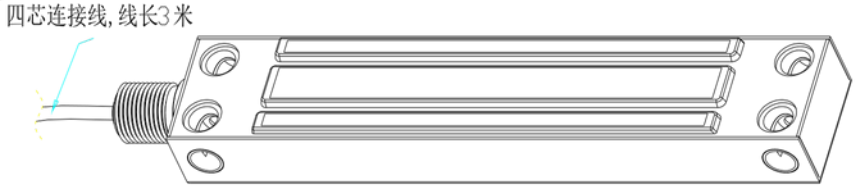
The explosion-proof electromagnetic lock produced are designed and manufactured in accordance with the relevant provisions of EU regulations 2014/34/EU. The products have been certified by EU ATEX explosion-proof testing institution

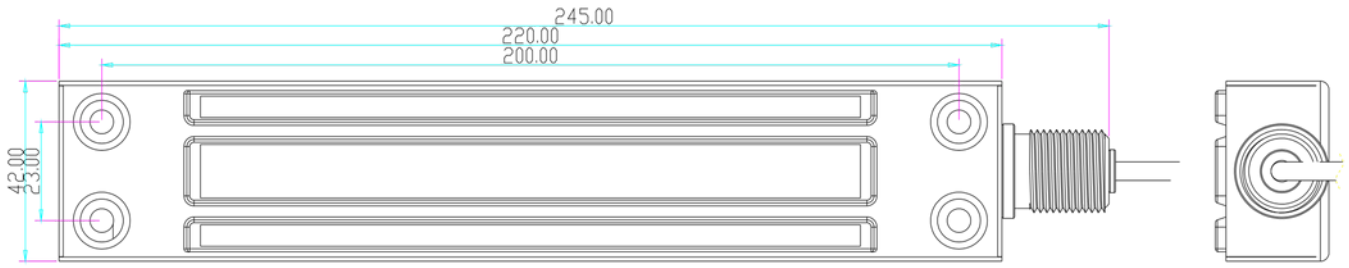
Please read the following information carefully before using our products to ensure that you can use them correctly and avoid safety accidents caused by improper use and operation.

Specification

- Lock body dimension: 245Lx42Wx26.5H(mm)
- Armature plate dimension: 180Lx38.8Wx13H(mm)
- Holding force: 280kg(600Lbs)±10%
- Input voltage: DC12V±10%(Customizable 24VDC)
- Current: DC12V/550mA±10%
  DC24V/275mA±10%(Customizable)
- Maximum power consumption: 6.6W
- Signal output: Lock signal contacts
  (Customizable door signal contacts)
- Lead length: 3m (GB fireproof cable)
- Certificate numbe:ECM 22 ATEX-B Cd66
- ATEX: II 1G Ex ib IIC T6 Gb
  II 2D Ex ib IIIC T85°C /T100°C Db
- International certification: CE、MA、ISO9001、UL、LVD、FCC
- Waterproof grade: IP68
- Surface temperature: ≤Ambient temperature +20°C
- Applicable temperature: -20~+55℃(14~131F)
- Applicable door types: wooden door,glass door, metal door, fire door, cleanroom door
- Weight: 2.3kg

Diagram (unit:mm)





⚠ **Notice:** Please read the following instructions before installation.

A. Please handle the lock carefully. Any damage of the surface or the armature plate will reduce the magnetic force.

B. Fix the lock on the door frame and the armature plate on the door leaf. The accessories can provide better conjunction to the lock and the armature plate.

C. Please keep the door closed when you drill holes.

D. Fasten the screws of the lock.

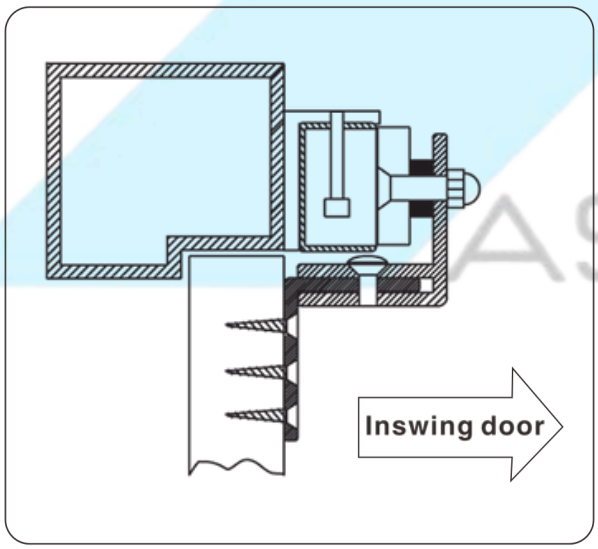
E. The limit value of the reed switch of the door signal detection is 0.5A/30V DC. Don't overload.

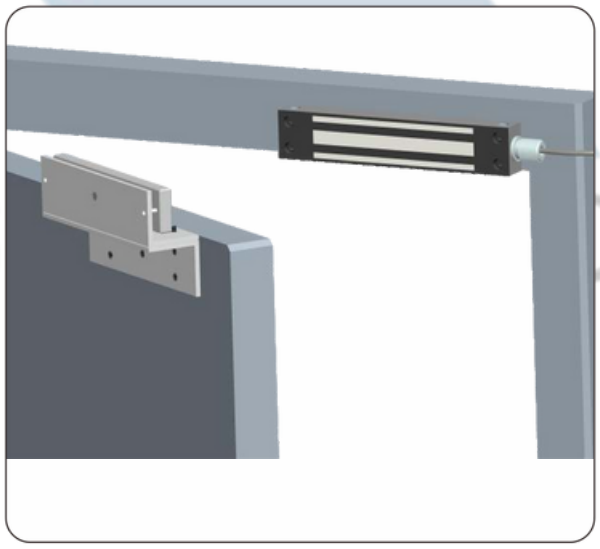
F. Make sure the armature plate can be slightly shaken when locked, for the rubber washer need some spaces to adjust the position of the armature plate and the lock.

G. Please select the correct wiring for DC 12V or DC 24V voltage input.

ZL Bracket

ZL Bracket-For inward opening door For inward opening door, ZL bracket is needed.





Step 1: There must be 2 metal washers and 1 rubber washer between armature plate and Z-shaped bracket. Put the rubber washer between 2 metal washers. Lock the flattop screw in the middle of armature plate to the Z-shaped plate.

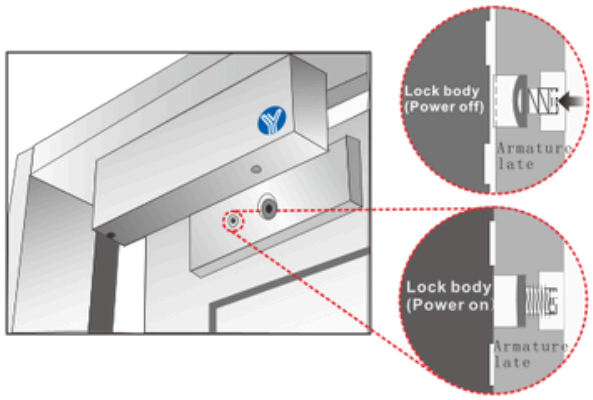
Note: Make sure the armature plate can be slightly shaken when locked. This will provide better conjunction to the magnet and reach the best efficiency.

Step 2: Drill 5 holes for the fixing the Z-shaped plate on the door fan. Make sure the positions of hole correspond to the magnet. Fasten the Z-shaped plate into the door fan firmly. Adjust the proper conjunction between Z-shaped plate and sheer strike plate.

Note: The Z-shaped plate should be equipped with the anti-sliding washers to avoid sliding.

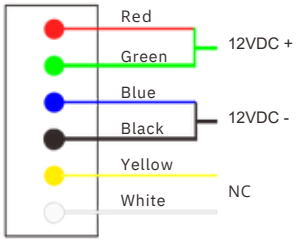
Anti-residual Magnetism Design

Professional anti-residual magnetism design, no residual magnetism when power off. It still unlocks quickly after 500,000 times aging test.

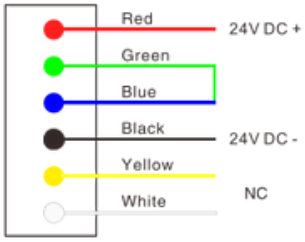


Wiring Indication

A、12VDC(Factroy default)



B、24V DC(Customizable)



Product Safety Precautions

1. Do not install it with power on to avoid dangerous situation
2. A dedicated power supply for the access control system with a rated voltage of at least 12V or 24V and a rated current of at least 1000mA should be installed at the power supply end of the product.
3. The connection mode of the product is permanent cable leading-in connection mode. Appropriate measures should be taken to connect the free end of the cable, and the cable must have a protective device to prevent mechanical damage.
4. When used in combustible dust environment, effective measures should be taken to clean the product shell to avoid dust accumulation, but the use of compressed air purging products is strictly prohibited.
5. The user shall not replace the parts of the product by himself, and shall work with the manufacturer to solve the problem in case of product failure, so as to prevent the occurrence of damage.

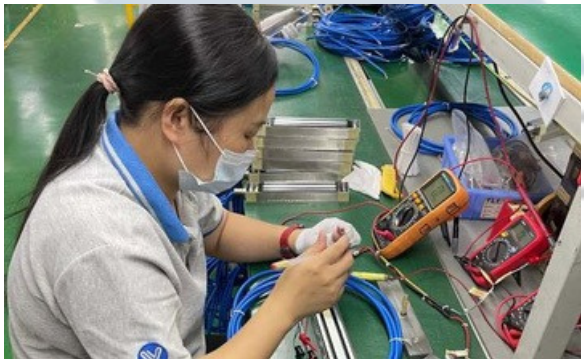
Production Process

The production of explosion-proof magnetic locks is strictly implemented according to the standardized SOP and quality inspection standards to ensure that the products meet the high quality requirements

Automatic Potting Machine

Sealed with fire retardant resin in accordance with EU and American Standards

Functional Test



Ensure that the performance of each product is qualified.

Aging Test

Strictly implement of inspection to ensure high quality, reliability and safety

Holding Force Test

The holding force is an important performance index of magnetic lock

We create security