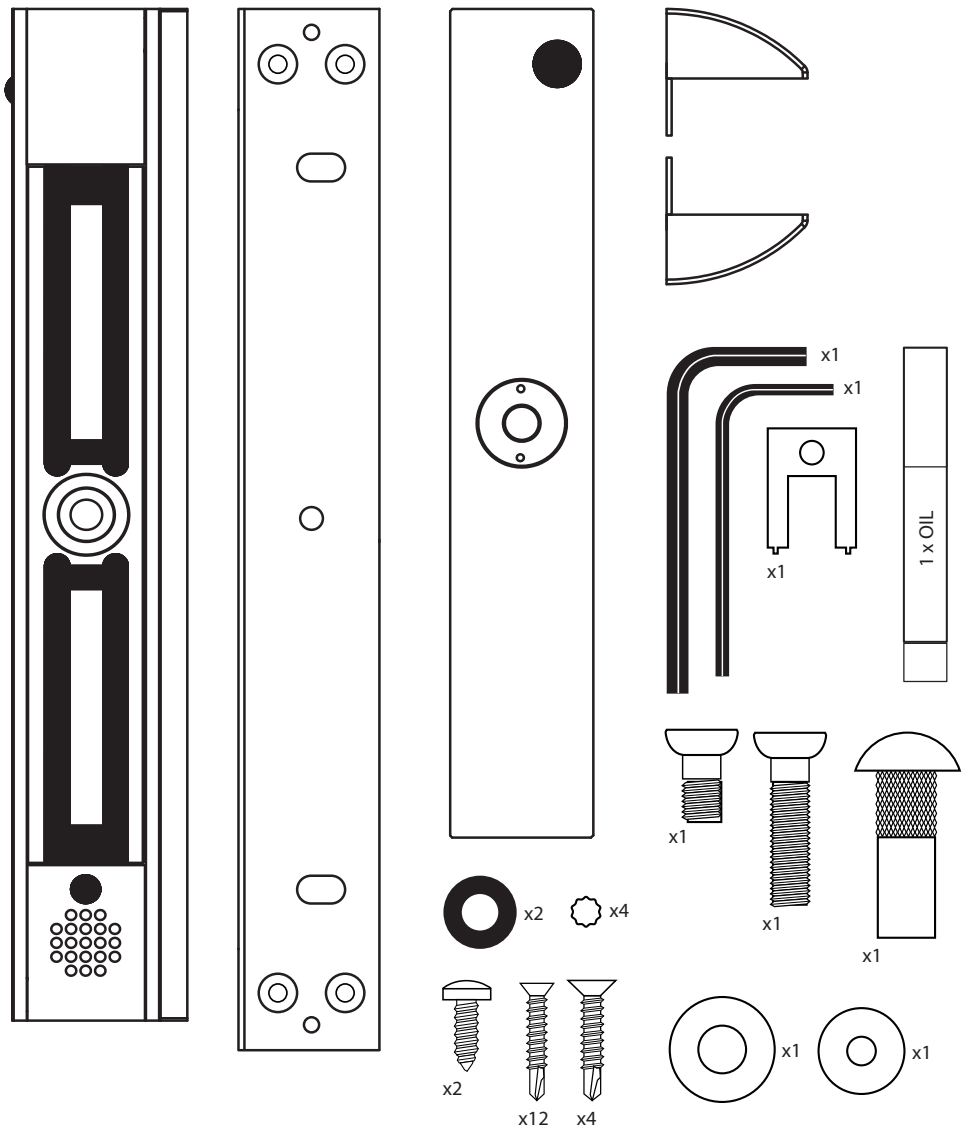
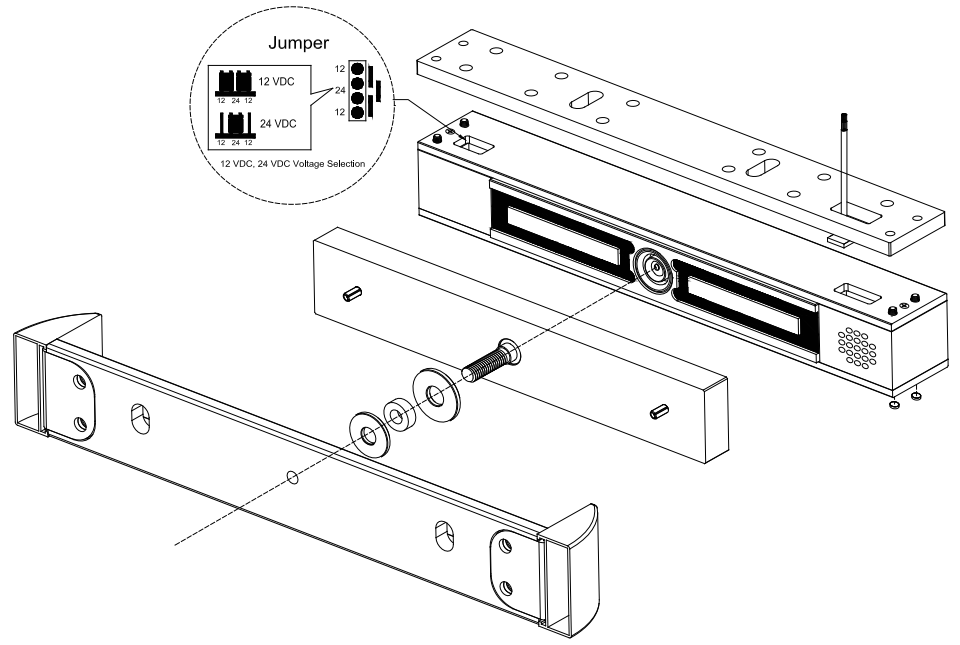
Vortex Door Magnet
AL2400-LP

Read all instructions before starting installation

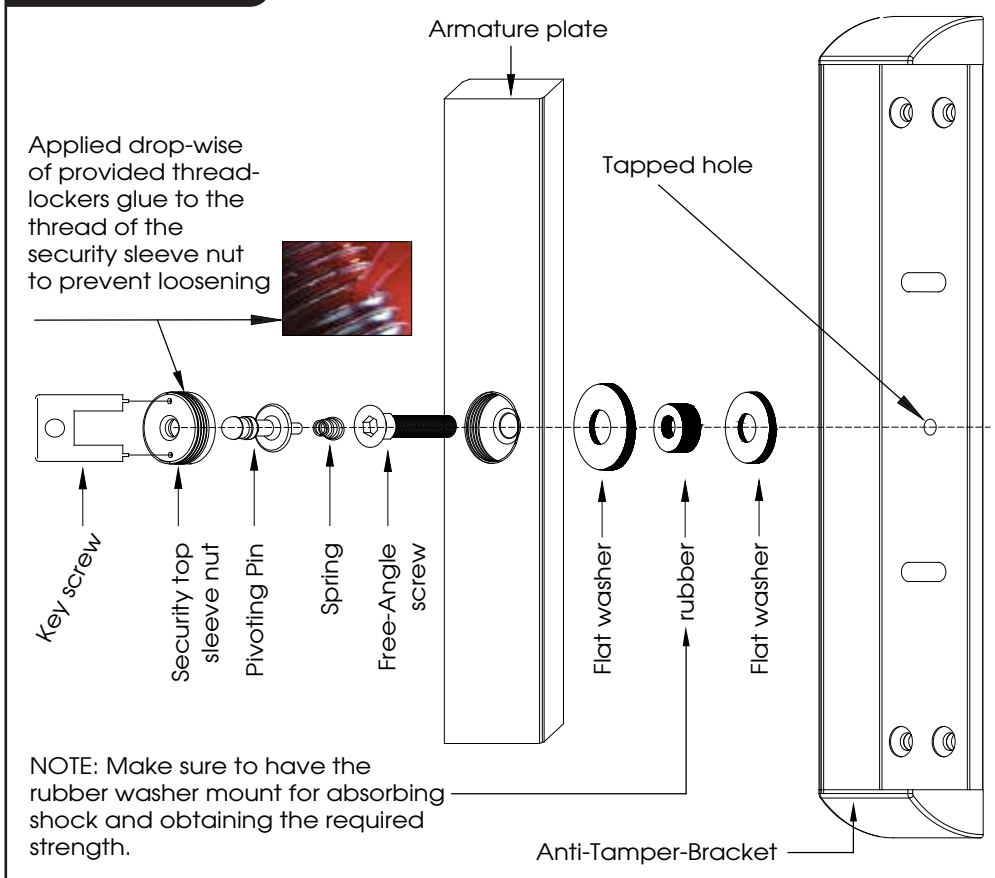
Pack Contents



Assembly



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.

Introduction

The AL2400-LP series are SURFACE mount mounting. The AL2400-LP model uses a miniature LED and a large strip LED for long distance door monitoring and smarter look (see LED feature p3).

The AL2400-LP 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 six metal marbles will ensure a holding force of > 15 000 N (~ 1 500 kgf). Cutting the power to the lock will remove the magnetic force and the marbles release themselves from pin head to unlock the door. The Vortex® AL2400-LP works in 12 or 24VDC. 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 12VDC (or 24VDC), not on the input wiring of power supply.

Also, this Vortex 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.

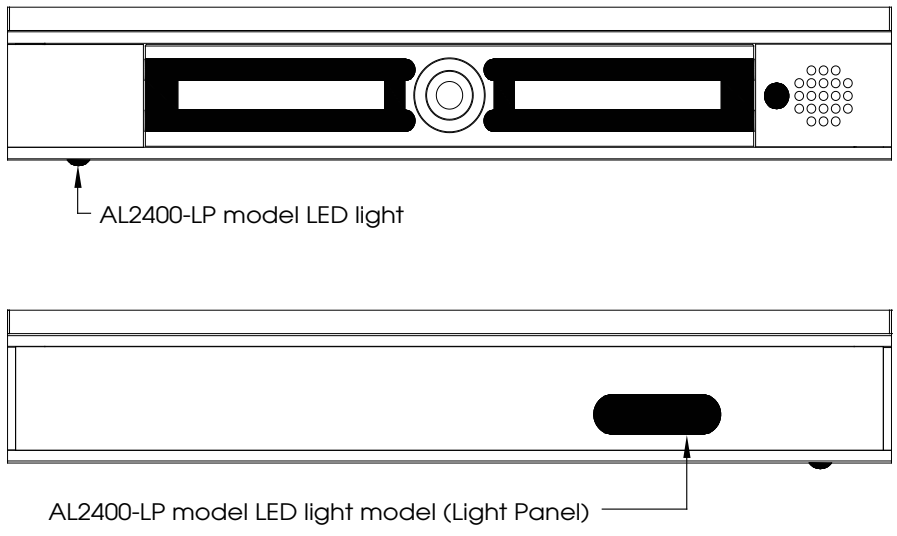
The PSU output **must not** be connected to the earth but isolated to avoid any kind of electric sparks, therefore damaging the lock and its surfaces.

Wiring & Power Input

We recommend using a 2 amp PSU (power supply unit) **per lock.**

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

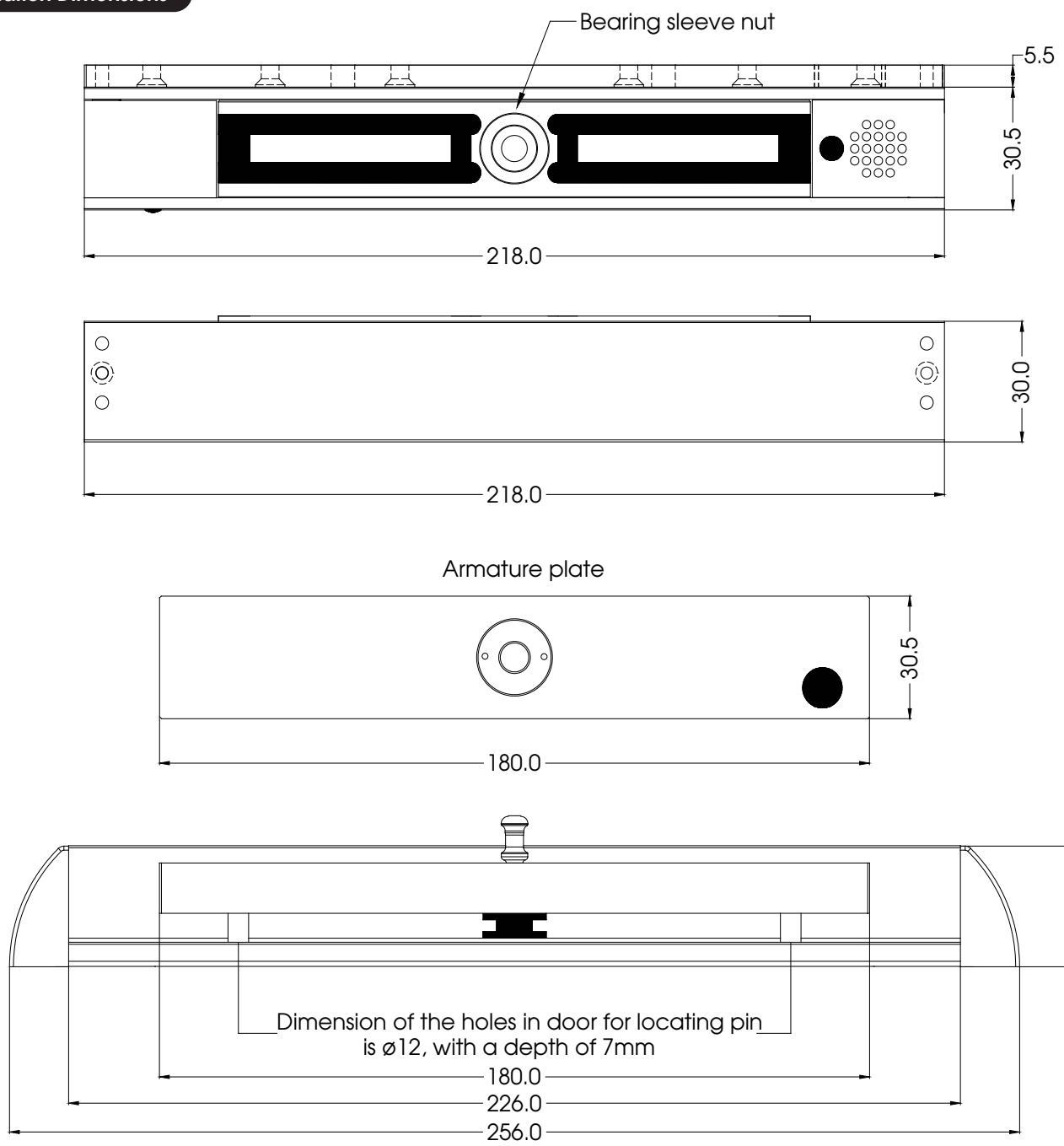
Light Feature



Vortex Door Magnet
AL2400-LP

Read all instructions before starting installation

Installation Dimensions



Important Safety Information

Secure firmly the 48AL2400-LP 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	Not enough DC voltage.	Check power at lock and wiring connection.
	Wrong wire connection.	Check wiring and refer to wiring instruction.
	The screw centre is bad positioned compared to the magnet.	Screw or contact supplier.
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 24VDC. For 12 VDC installation, please select the jumper correctly.

alpro Architectural Hardware
Harwell Road Nuffield Estate Poole Dorset BH17 0BD Great Britain
T 01202 676262 F 01202 680101 E info@alpro.co.uk W www.alpro.co.uk