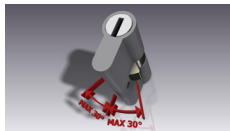


# A1 ELECTRO-MECHANICAL SECURITY LOCK

## Installation instructions

Please make sure the following installation requirements are met to ensure the correct functioning of your B&B A1 electro-mechanical lock :

- Use BB25LSZH cable (2 x 1,5mm<sup>2</sup> + 5 x 0,22mm<sup>2</sup> - shielded)!
- Using a 24V DC regulated power supply of minimum 2,5A per lock (ref. PWR2-24) the maximum distance between power supply and lock may not exceed 25m (using a 1,5mm<sup>2</sup> power cable)!
- Using a 48V DC regulated power supply of minimum 1,25A per lock (ref. PWR2-48) the maximum distance between power supply and lock may not exceed 300m (using a 1,5mm<sup>2</sup> power cable)!
- Measure the voltage coming to the lock and make sure that this never drops below 22,8V. This is important especially when the solenoid is activated (and should therefore be measured under a 50W load)!
- Make sure the distance between the lock and striker plate is min. 2mm and max. 6mm.
- Make sure the lock and striker plate are installed in a proper manner where the 2 are perfectly aligned (in closed door position they should be straight across from each other, both laterally and in height).
- Make sure that there is no friction on the bolt when being ejected and retracted (this should be tested after installation of the rubbers on the door).
- Make sure the holes for inserting the cylinder are large enough so the cylinder can be easily installed without being forced.
- Only cylinders with the lever at 5 and 7 (o'clock) can be used:

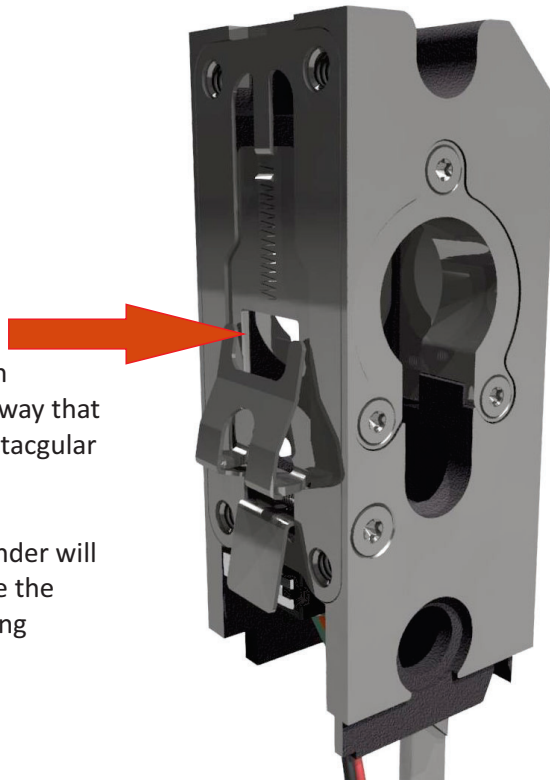


- Be careful when installing the cylinder. It needs to be positioned perfectly in order to be able to grab the moving parts (first a cylinder contact and then a slider). Please do not force when the rotor of the cylinder is not turning smoothly, but check the position of the cylinder contact first (plate in bottom position) and make sure the cylinder is centered nicely.
- When connecting the power to the lock, the bolt will immediately unlock (in case of a fail secure) or remain unlocked (in case of a fail safe). Only when the lock detects its striker plate (by 3 permanent magnets in the striker plate), the bolt will be thrown out and locked.
- Every A1 lock (except the SANOCYL model) can be unlocked mechanically using a key. Locking it using a key is not possible however!
- The handle of a HX and HE model (= fail secure) will always (with or without current) unlock the lock. Therefore the panic function is always guaranteed.
- The locks need a permanent supply of 24V DC. In order to unlock a NO contact should be closed in order to bridge pin 2 and pin 3.
- **DO NOT FILE with the lock already installed!** Filings that end up in or around the lock will be attracted when the solenoid is activated and will eventually damage the lock. Compressed air can be used to clean out the lock if necessary.
- Do not use grease or oil in the locks. The necessary areas have been lubricated during the assembly at the factory.
- A standard revision is recommended after 300'000 cycles or 5 years.
- Make sure the door is equipped with adequate hinges (according to door size and weight) to avoid „hanging“ of the door.
- Make sure the door is equipped with an adequate door closer (according to door size and weight) !

**Please note that in order for the lock to function correctly the above mentioned specifications need to be strictly followed. B&B LOCKS b.v.b.a. can not be held accountable for on-site interventions and reparations under warranty if the installation was not done according to these specific instructions !**

## **Starting position of the cylinder contact:**

- the plate is positioned towards the bottom
- the opening in the plate is positioned in a way that the rotor of the cylinder slides into the rectangular opening perfectly.
- the microswitch is not activated
- when turning the key, the rotor of the cylinder will slide the plate upwards, which will activate the microswitch. This gives an internal unlocking impulse to the lock.



## **End position of the cylinder contact:**

- the plate is positioned towards the top
- The rotor of the cylinder has passed by the rectangular opening and can continue turning in order to move the mechanical slider downwards, which retracts the bolt.
- the microswitch remains activated, giving the lock a permanent unlocking impulse (when the door now closes the bolt will therefore not be thrown out).
- the opening in the plate is positioned in a way that the rotor of the cylinder slides into the rectangular opening perfectly when the key is turned back into its original position (to be able to take out the key).
- when turning the key backwards, the rotor of the cylinder will slide the plate downwards, which will de-activate the microswitch.

