CDVI

CZ3000

Self-aligning Magnetic Shearlock
Ventouse à cisaillement et à auto-alignement

Range: Locking devices / **Gamme:** Verrouillage

INSTALLATION MANUAL
MANUEL D'INSTALLATION

CDVI *Group Company*

CZ3000
Self-aligning Magnetic Shearlock

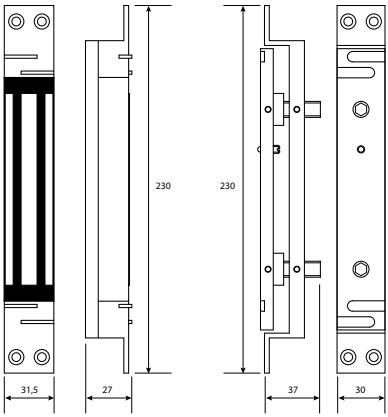
1] PRODUCT OVERVIEW

The CZ3000 is a Shear magnet with a patented self aligning mechanism. This magnet is mortise and monitored as standard and can be surface mounted (Surface housing kit). The magnet can be mounted on any type of doors (vertical or horizontal mount). The CZ3000 can be mounted on the door leaf or on the door jamb.

Technical specifications

- **1500 daN holding force:** 1500 KG in shear holding.
- **Self aligning**
- **Kick off springs**
- **Form C output (monitoring)**
- **Finish:** aluminium/steel
- **Build-in varistor.**
- **Input voltage:** 12 or 24 V DC.
- **Consumption:**
  - 12 V DC / 600mA,
  - 24 V DC / 300mA.

H.R.V.
High Resistance to vandalism



CE D0160D Aerospace Standard Certified

PATENTED BREVETÉ

2] RECOMMANDATIONS

Wiring
Do not put the cable near a main voltage installation (ex: 230 V AC).

Mounting
Keep imperatively a gap <2MM between the magnet and the armature plate.

Suggested power supplies
These power supplies are recommended with the CZ3000 (for more information visit our web site at www.cdvi.com):
- ARD2/12
- BS60

Optional
Surface housing (Reference: KCZ3000).

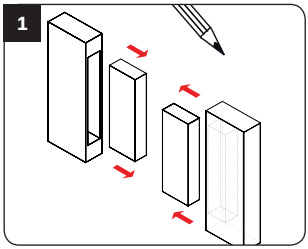
3] MOUNTING KIT

				
	Armature plate CZ3000	**FHC Screws (M5x20)**	**spanner**	**Mounting plates**
CZ3000	1	8	1	2

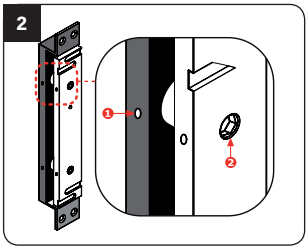
4] MOUNTING INSTRUCTIONS

Make sure that there are no pieces missing in the mounting kit. Get the right tools according to the installation type (Drill, screw drivers, metre tape,...) and follow the mounting instructions of the CZ3000.

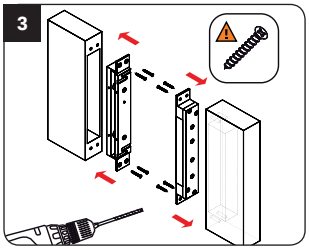
A - Wooden door



Make a cut on the door leaf and a cut on the door jamb in order to insert the magnet and the armature plate of the CZ3000 magnet. Then mark the mounting holes of the mounting screws. Drill the mounting holes of the magnet and of the armature plate in order to facilitate the screwing. Drill the cable access hole.

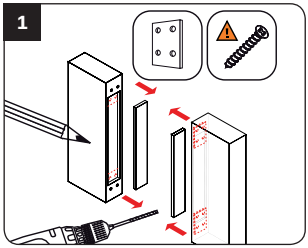


Insert the cable of the magnet. Unfasten the screws on the side of the armature plate (1) with the Allen key. Mount temporarily the CZ3000. Then adjust the gap between the magnet and the armature plate by adjusting the top screws on the armature, allow 2mm distance maximum. Tighten the 2 screws on the side of the armature plate (2) once the test on magnet has been successfull.

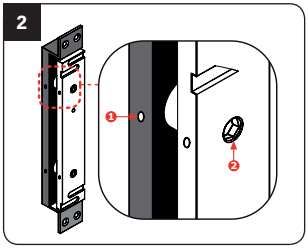


Fasten definitively the magnet on the door.

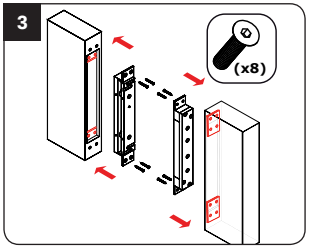
B - Aluminium door



Make a cut on the door leaf and a cut on the door jamb in order to insert the magnet and the armature plate of the CZ3000 magnet. Then mark the mounting holes of the mounting screws and drill the mounting holes of the magnet and of the armature plate in order to facilitate the screwing.

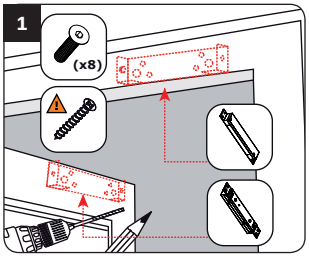


Mount the back plate of the housing (note that the screws are not included). Unfasten the screws on the side of the armature plate (1) with the Allen key. Mount temporarily the CZ3000. Then adjust the gap between the magnet and the armature plate by adjusting the top screws on the armature, allow 2mm distance maximum. Tighten the 2 screws on the side of the armature plate (2) once the test on magnet has been successfull.

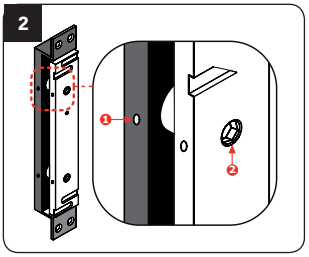


Place the magnet on the back plate of the surface housing as well as the armature on the second back plate of the surface housing and fasten definitively the magnet on the door.

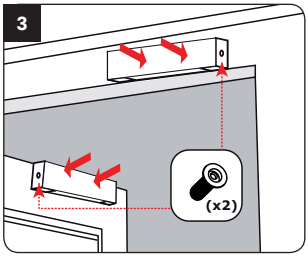
C - Surface mount (Optional: KCZ3000 kit)



Measure and mark the center lines to determining the magnet position on the jamb and the armature plate on the door leaf frame. Then drill the fixing screw holes to fasten the screws easily.
Important: The surface housing can be mounted in horizontal or in vertical in the secure side.



Mount the brackets of the housing on the jamb and on the door leaf. Insert the cable and fasten temporarily the magnet and the armature plate to the bracket of the housing. Unfasten the screws on the side of the armature plate (1) with the Allen key. Then adjust the gap between the magnet and the armature plate by adjusting the top screws on the armature, allow 2mm distance maximum. Tighten the 2 screws on the side of the armature plate (2) once the test on magnet has been successfull.

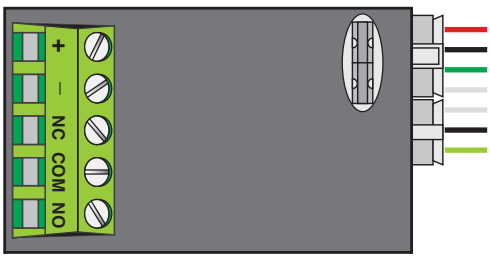


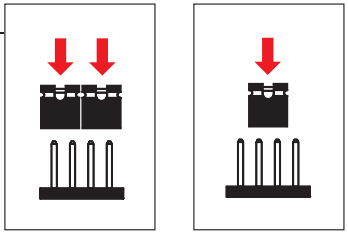
Fasten definitively the magnet on the door and place the housings.

5] WIRING DIAGRAM

Terminal block

+	Input voltage 12 V or 24 VDC*
-	Input voltage 12 V or 24VDC*
NC	Normally closed contact
C	Common
NO	Normally open contact





*** Input voltage: 12 VDC or 24 VDC**
The magnet can be powered in 12 VDC or in 24 VDC according to the jumper settings.