

KRYPTO
HIGH SECURITY CARD READERS

K3
**DESFire EV2® High-Security
Keypad and card reader**








Radio equipment for access control applications.

CDVI's KRYPTO K3 card reader/keypad makes high security easy!

KRYPTO K3 Mifare® DESFire® EV2® readers combined with CDVI EV2 credentials work right out of the box. No fastidious and complicated programming required!

Factory-programmed, industry-unique secure CDVI protocol and encryption keys ensure end-to-end encryption between the card, reader/keypad and A22K door controller.

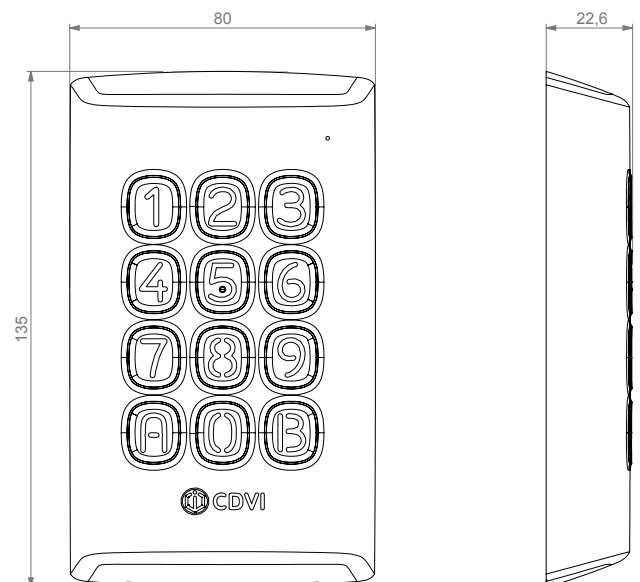


-  RED Certification
-  CE Certification
-  -40°C to +70°C
-  IP65
-  IK10
-  WEEE
-  RoHS



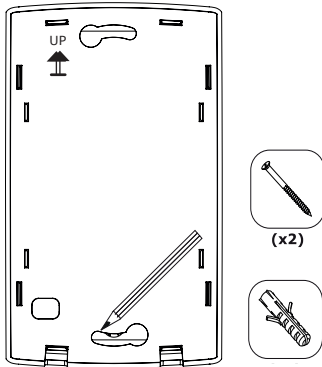
We, CDVI, declare that the K3 radio equipment complies with directive 2014/53/UE. The full text of the EU declaration is available at www.cdvi.com

- Bi-technology, keypad and reader
- Easy to use & FULLY secure CDVI protocol using authentication with diversified keys.
- Reads 13.56 MHz Mifare® Classic and DESFire EV2 credentials
- OSDP-2 compatible
- Bluetooth
- Up to 4 in. (10cm) read range
- Power requirements: 12VDC
- Current consumption : 200mA



RFID Frequency band : 13,553-13,567 MHz / Bluetooth Frequency band: 2,402 - 2,480 GHz
Maximum transmitted power <60dBµA/m

MOUNTING



It is recommended to use **CAT5e/6** cable

Distance between the reader and the controller up to 1220m (AWG 22 cable).

LED STATUS INDICATORS

Here are the LED status when connected to an A22K ATRIUM controller :

LED State	Buzzer	Description
Steady blue	-	Standby (door secure)
Green 5 sec.	Chirp beep	Access granted
Red blinks	Steady beep for 3 sec.	Access denied
Flashing blue	-	Reader compromised (lost its encryption key)
Blinks green every 3 sec.	-	Door unlock schedule
Flashing Red	Steady beep	Door forced alarm
Flashing Red	Beep every 2 sec.	Door open too long pre-alarm
Flashing Red rapidly	Fast beep	Door open too long alarm

WIRING DIAGRAM

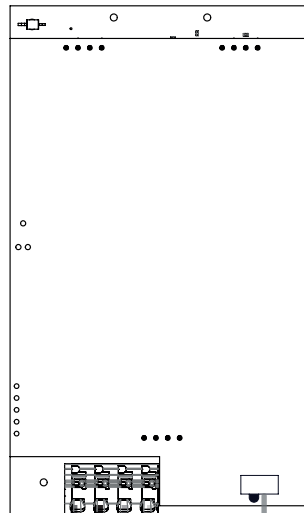
K3 READER

EXIT READER OPTION (RS485 ONLY):
Each A22K controller supports the Input/Output reader, 2 readers per door. Connect the 2 readers in parallel (as shown below).

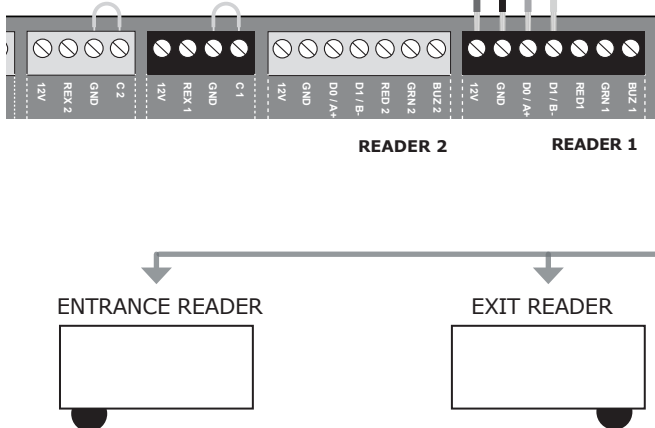
CAUTION

The dipswitch must be at the bottom near the motherboard:
Set the position of the switch before powering the player, or unplug and plug the player if you change the dip switch to the exit mode.

The 2 players must be separated by a distance of 20 cm to avoid any interference.



A22K CONTROLLER



Position the switch to the left next to the terminal block (manufacturer setting)

Position the switch to the right

Note:

Door output timings such as; unlock time (access granted), door open too long pre-alarm and door open too long alarm, can be modified in the ATRIUM software "Door Properties" window.

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