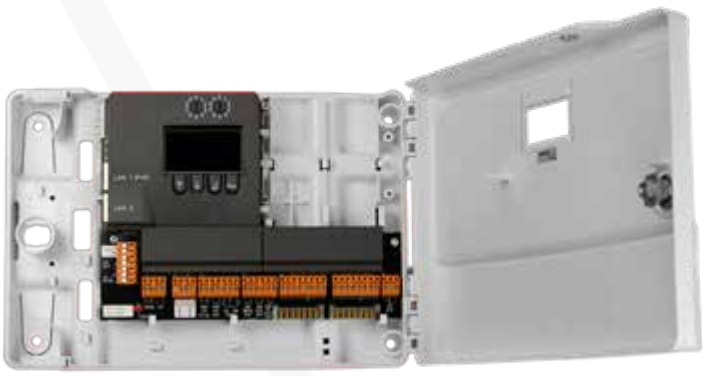
Manual

Updated 11/23/2020

Door controller VAKA B28

The B28 manages one door environment with among others two slots for modules for extra functionalities, day- and night lock, door entry phone and readers in a VAKA system.



Axema Access Control AB | Box 90215 | 120 23 Stockholm, Sweden | +46 (0)8-722 34 40 | info@axema.se | www.axema.se

Important

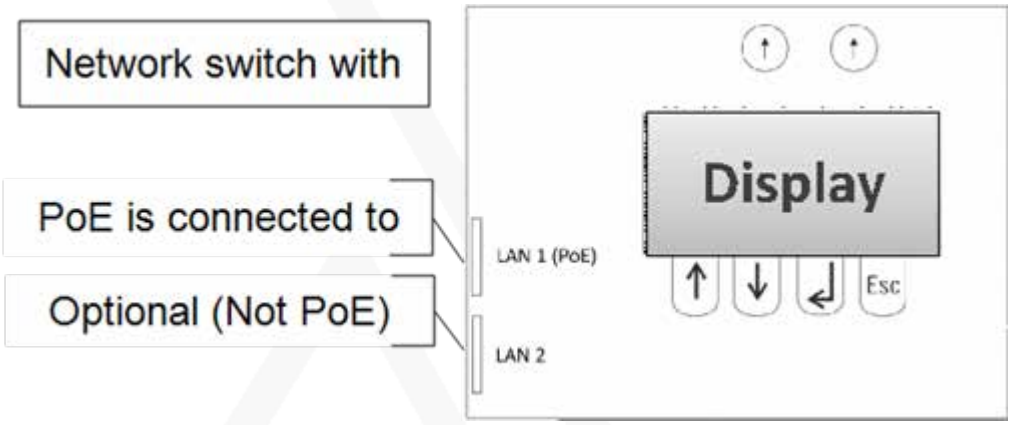
- B18/B28 requires Axema VAKA version 3.7 or later. (https://info.axema.se+version)
  Existing systems with an earlier version should be upgraded prior to installation of B18/B28.
- To interface intrusion panels, the B28 needs an alarm module, C20.
- B18/B28 are compatible with older door controllers B17/B27 and B16/B26.
- For the connectors in B18/B28, a flat 2,5 mm screwdriver is recommended.

Mounting

To allow for installation of modules for extra functionalities, the door controller should be mounted to ensure 40 mm of free space above the unit.

CPU module

Door controller with on-board network switch, rotary switches for node address and keypad and display for settings and system information



Node addresses

Door controller in VAKA systems without B60 must have a unique node address between 1 and 10. In VAKA systems with B60, door controllers in each domain must have a unique node address between 1 and 50.

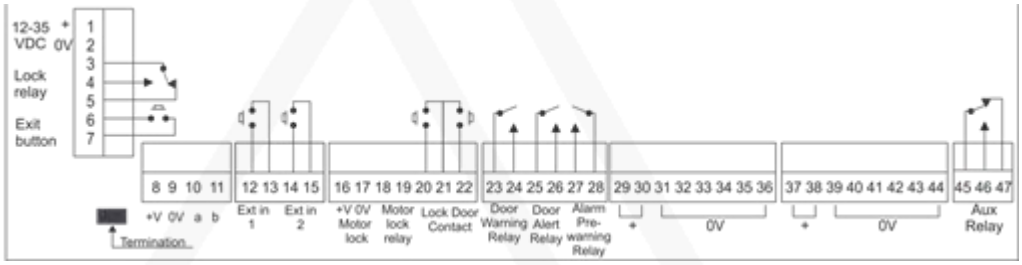
The door controllers default IP addresses follow the node address, for example, a door controller with node address 1 has the IP address 10.0.0.201 and a door controller with the node address 4 has the IP address 10.0.0.204.

The node address is specified with the rotary switches and must be specified before the door control panel is installed in VAKA.

Instructions for changing the node address after the door control panel has been installed in VAKA.

1. Uninstall the door controller in VAKA.
2. Isolate the door controller from the VAKA network.
3. From the Main menu in the door controller, select *SYSTEM SETTINGS-> CLEAR CONTROLLER*.
4. Confirm *THIS WILL RESTORE FACTORY DEFAULT! ARE YOU SURE?* by pressing the return arrow.
5. When the door control panel restarts, set the correct node address and change the IP address if necessary.
6. Connect the door controller to the VAKA system network and install the door controller in VAKA.

Jackable connection terminals



Connector	Description
1, 2	Supply voltage (12-35 VDC) If the door is powered by PoE, this connector will deliver 12 VDC or 24 VDC (configurable in VAKA). (Connector 1 is +)

Connector	Description
3 - 5	Opening relay. Alternating potential-free contacts (NO 3-4, NC 3-5). Load 1 A. Connection of electric lock (PoE + and transformer), place jumper between 2 and 3 and connect the lock to 1 and 4 (1 and 5 in reverse function).
6, 7	Input for exit button Closing of the input gives an unlocking.
8 - 11	Connection for readers. *For cable types, distances, etc. See manual for the reading terminal.*
12 - 15	Programmable inputs (2pcs).
16, 17	Voltage output. Follows voltage from terminals 1 and 2.
18, 19	Output for separate night locking (eg motor lock). Potential-free closing contact.
20, 21	Input bolt piston contact for control of bolt (locked / unlocked).
21, 22	Input door contact for checking the status of the door (closed / open).
23, 24	Output for door monitoring. Activated during the set warning time if the door is not closed after the opening hours have expired.
25, 26	Output door alarm. Activated when the warning time has expired if the door is open / unlocked, or when the door is forced / forced open.
27, 28	Output warning. Activated during warning time when arming from VAKA.
29 - 44	For future use
45 - 47	Output Aux, potential-free closing relay. Used for activating door opener or sum alarm. Function is determined via the software.

Termination

See the manual for the reader that is used. (https://info.axema.se)

Installation and configuration

This manual only covers the installation and connection of the unit.

Technical data

Attribute	B28
Power supply	12-35 VDC orr PoE+ IEEE 802.3 at
Built in switch	Yes
Built in firewall	No
PoE-support	Yes
Maximum relay load	10-30 VDC
IP-rating	IP22
IP rating	IK06
Temperature range	0° to +55C°