



# INSTRUCTION MANUAL

## DAAB AUTOMATIC MAGNETIC LOCK DB310

*For DAAB automatic control unit  
EP103  
EP104  
EP105*



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**Technical data**

Dimensions (WxHxD)	36x90x62 mm
Power supply	24VDC
Temperature range	0 to 50°C
Output	1x max 1 A magnet
Indication	2x LEDs
Degree of protection	The circuit card is designed for internal installation in an enclosure

## Safety instructions

See instruction manual for automatic control units EP103/EP104/EP105.

## General description

Add-in card that magnetises and demagnetises an electromagnet. Demagnetisation takes place for about 3 seconds on each start of both opening and closing movements of the gate.

The recommended power supply to the DB301 and magnet is FAAB's transformer SPD.

## Installation

1. Disconnect power to the automatic control unit and transformer.
2. Attach DB310 to DIN rail.
3. Connect the card as described in Connection.

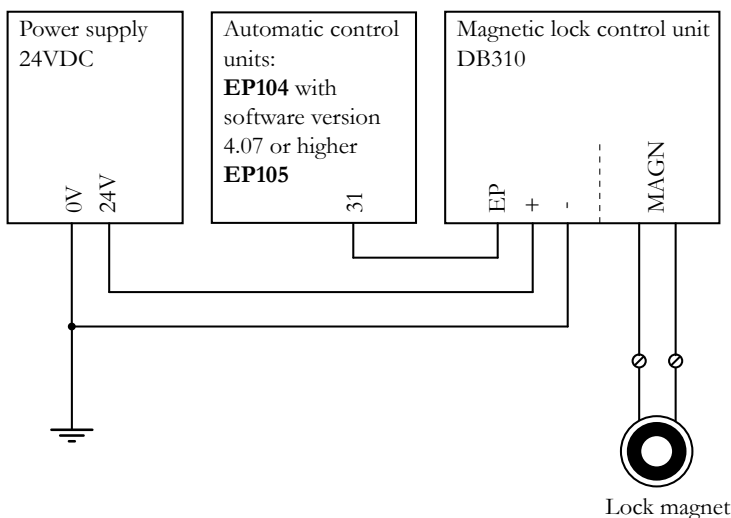
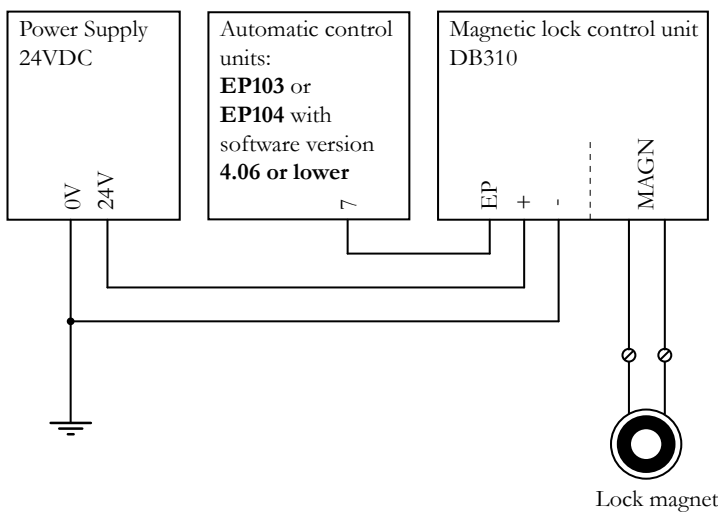
Note that if the magnetic lock is of the overlap type, it is motor 1 that opens first.

## Connection

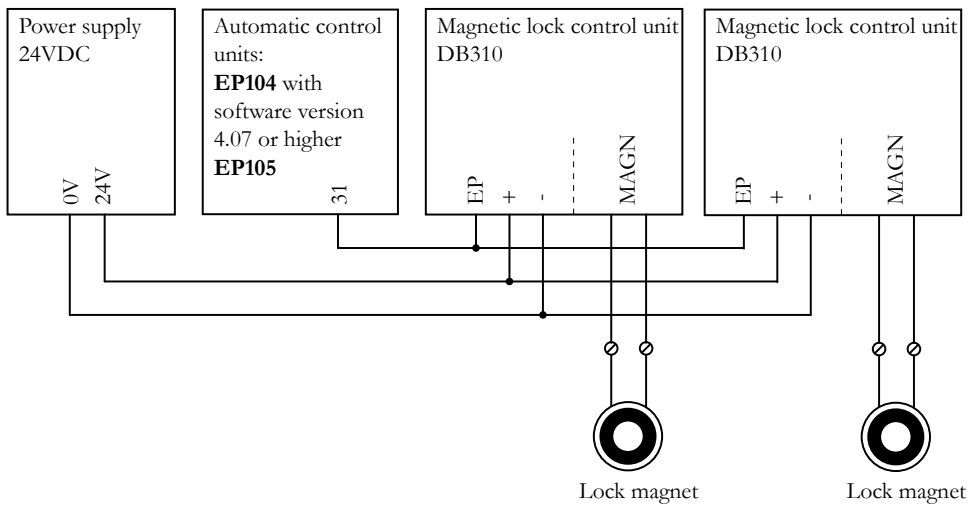
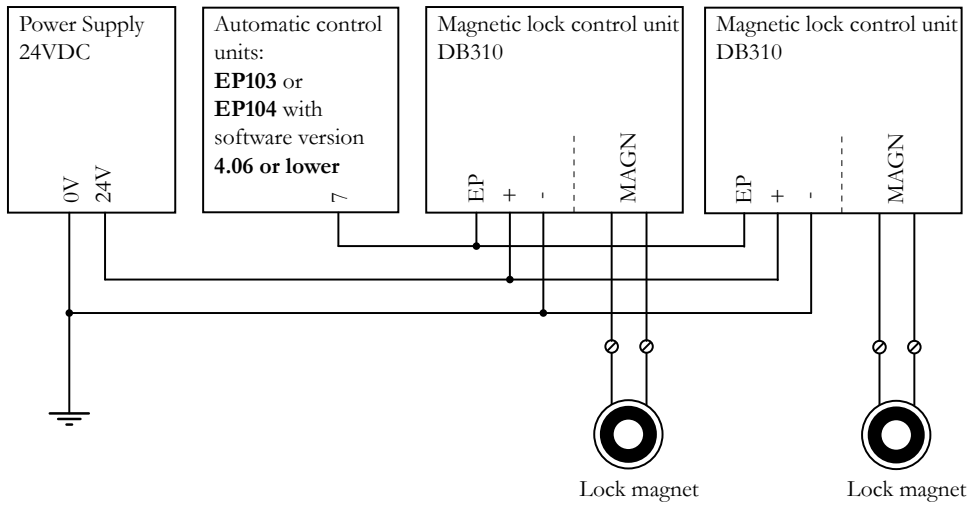
Note that the connection of DB310 differs depending on version of EP card and software, see the illustrations below. Connection must be performed by a qualified technician.

Suitable cable area between DB310 and the magnet is 0.75 mm<sup>2</sup> up to 50 m, there after 1.5 mm<sup>2</sup> up to a maximum of 100 m. Supply between DB310 and the magnet must be done via a separate cable.

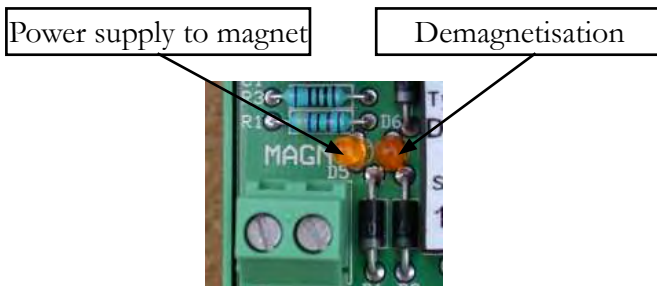
### Example of connection for one magnetic lock:



**Example of connection for two magnetic locks:**



**Indications**



## Settings for EP103 with magnetic lock

When an electric magnetic lock is used, the magnetism must have time to release before the gate is allowed to start moving. It is therefore possible to delay the start of gate movement with an adjustable time in channel C39, 0.00 to 0.99 seconds. C39 is normally to be kept at its starting value 0.00, but if the magnet still holds the gate leaf at the start the value must be increased until it no longer does so. If the magnetic lock is of the overlap type, the delay time between the halves must be adjusted in channel C38, 0.1 to 9.9 seconds so that the halves do not jam together. A start value could be 3.0 seconds, i.e. it takes 3 seconds from the time when the first half starts until the second half starts. When starting from the closed position, it is always motor 1 that starts first, so think about how the two halves of the magnetic lock are to be installed.

See also Commissioning of gate, section on magnetic lock, in the instruction manual for EP103.

No.	Name	Range	Factory	Setting
C38	Time delay before second motor starts. Start of motor 2 is delayed in opening, and start of motor 1 is delayed in closing	0.1-9.9 seconds	0.1	
C39	Time delay before first motor starts. Start of motor 1 is delayed in opening, and start of motor 2 is delayed in closing	0.00-0.99 seconds	0.00	

## Settings for EP104 and EP105 with magnetic lock

When an electric magnetic lock is used, the magnetism must have time to release before the gate is allowed to start moving. It is therefore possible to delay the start of gate movement with an adjustable time in channel C470, 0.00 to 0.99 seconds. C470 is normally to be kept at its starting value 0.00, but if the magnet still holds the gate leaf at the start the value must be increased until it no longer does so. If the magnetic lock is of the overlap type, the delay time between the halves must be adjusted in channel C460, 0.1 to 9.9 seconds so that the halves do not jam together. A start value could be 3.0 seconds, i.e. it takes 3 seconds from the time when the first half starts until the second half starts. When starting from the closed position, it is always motor 1 that starts first, so think about how the two halves of the magnetic lock are to be installed.

No.	Name	Range	Factory	Setting
C460	Time delay before second motor starts. Start of motor 2 is delayed in opening, and start of motor 1 is delayed in closing	0.1-9.9 seconds	0.1	
C470	Time delay before first motor starts. Start of motor 1 is delayed in opening, and start of motor 2 is delayed in closing	0.00-0.99 seconds	0.00	



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