

ECN01

CAN module (counter module)



For the management of simple parking facilities

The CAN module can be used to set up a simple control system for car parks and parking facilities. This type of control is suitable for facilities that have a set number of parking spaces and do not use their own parking system. This involves setting up a CAN network which the barriers use to exchange the number of vehicles entering and leaving. One barrier, which is configured as a master, manages the counts of all connected barriers and controls the outputs for reporting occupancy.

The control system enables the entrance until the number of vehicles in the facility has reached the number of parking spaces.

Afterwards, the entrance is blocked until vehicles have left and parking spaces have become free again. A certain hysteresis can also be provided here.

The counting variants, the vehicle counters and the counter readings can be set via the MGC Pro control unit. The counter reading can also be reset externally via an input on the control unit.

In addition or as an alternative to counting, the CAN module can be used to control up to 32 barriers via a computer with CAN interface and to query status messages.

Technical data	ECN01
Current consumption	50 mA
Maximum line length	1000 m
Interface type	CAN
CAN bus termination	Per menu
Cable type	1 x 2 twisted pair, shielded, 0.75 mm ²
Connector type	Pluggable screw-type terminals, max. 2.5 mm ²
Number of interlinkable modules	32
24 V digital output	1



Simple vehicle counting

The CAN module allows you to set up simple control for parking applications with a set number of parking spaces. The module records the vehicles entering and leaving and blocks the access when all parking spaces are occupied.



Comprehensive connectivity

You can control and monitor your Magnetic barriers in numerous ways: in addition to the CAN module, modules are available for the Ethernet, RS 485, mobile communications in the 2G and 4G network as well as for FM radio in the 433 MHz band.

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- > For setting up simple parking applications
- > Reliable counting of incoming and outgoing vehicles
- > Different counting variants to choose from
- > Barrier control and monitoring via CAN bus
- > Extension module for the MGC Pro control unit
- > Easy to install with plug-and-play



The CAN module can be used in the following barriers:

Item number	Description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
ECN01	CAN module (counter module)			•	•	•	•	•	•	

Counter variants of ECN01

Variant	Application
One-directional operation	<p>There is at least one barrier for entry and at least one barrier for exit. The counting data is collected in the barrier configured as the master.</p> <p>The counter is increased by 1 when the entrance is passed through, and it is reduced by 1 when the exit is passed through. If the counter reaches the maximum number of parking spaces, access is blocked at all barriers until cars have left and parking spaces have become available again.</p>
Two-directional operation	<p>There are one or more barriers that are used for both entry and exit. One barrier must be configured as a master barrier, the others operate as slave barriers. The counting data is collected in the master barrier in the same way as in one-directional operation.</p> <p>The counter is increased by 1 for an entering vehicle and reduced by 1 for an exiting vehicle. If the counter reaches the maximum number of parking spaces, access is blocked at all barriers until cars have left and parking spaces have become available again.</p>
One-zone and two-zone operation	<p>In one-zone operation, the vehicles can be counted in one parking area; in two-zone operation, two parking areas can be managed separately.</p>
Hysteresis	<p>The hysteresis setting can be used to enable entry with a delay until a minimum number of parking spaces are available again. This prevents users from having to search for the last free spaces for a long time.</p>