

DM02

2-channel loop detector module



For professional parking applications

Vehicle barriers are usually operated with 2 induction loops: the opening loop in front of the barrier automatically releases the exit, and the monitoring loop under the barrier boom protects people and vehicles from collisions. Magnetic barriers are equipped with 2 detector channels for this application.

There are instances, especially in parking applications, where additional induction loops are useful. In addition to the opening and monitoring loop, a presence loop is often required to activate the ticket dispenser or ticket reader.

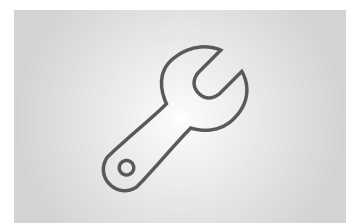
For long-term parking, two presence loops can detect the direction of travel of the vehicle at the ticket dispenser and thus prevent attempts at fraud – for example, when a vehicle buys a ticket for another vehicle and drives back again. The detector module DM02 allows 2 additional detector channels to be retrofitted in any Magnetic barrier. The module is plugged into a free slot and self-installs via plug-and-play. All loops in a barrier are activated alternately in multiplex mode. This prevents the barrier from malfunctioning due to electrical crosstalk.

Technical data	DM02
Current consumption	50 mA
Number of additional channels	2
Inductance range	70 to 500 μ H
Number of sensitivity levels per channel	10
Responsiveness	0.01–2.0% $\Delta f/f$
Frequency ranges per channel	2 (high and low)
Connector type	Pluggable screw-type terminals



For parking applications

The loop detector module can be used to implement additional functions for parking applications: an additional presence loop enables ticket machines, and two loops can prevent ticket fraud.



Simple commissioning

The loop detector module is simply plugged into the barrier control unit and self-installs. Configuration as monitoring, opening and presence loops and the parameter settings are conveniently carried out using the control unit.

DM02

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- Extends the barrier up to 4 loop channels
- An additional channel for activating ticket dispensers or ticket readers
- Two additional channels for detecting ticket fraud
- Extension module for the MGC and MGC Pro control units
- Easy to install with plug-and-play
- Simple configuration and parametrisation via the control system



The loop detector 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
DM02	Loop detector module, 2-channel	•	•	•	•	•	•	•	•	•

Induction loops

Item number	Description	Access	Access -L	Access Pro	Access Pro-L	Access Pro-H	Access XL2	Access XXL	Parking Pro	Toll
IS06	Induction loop 6 m	•	•	•	•	•	•	•	•	•
IS09	Induction loop 9 m	•	•	•	•	•	•	•	•	•
IS12	Induction loop 12 m	•	•	•	•	•	•	•	•	•
IS15	Induction loop 15 m	•	•	•	•	•	•	•	•	•
IS21	Induction loop 21 m	•	•	•	•	•	•	•	•	•

Application example



An example of a parking application that requires 3 loop channels and thus the DM02:
The barrier is driven through in two directions. The presence loop enables interaction with the terminal upon entry, and the opening loop enables exit without additional control. Finally, the safety loop protects the barrier and the vehicle from collisions.