

MAG-FLEX - MFA MAGNETIC SENSORS

Detection - Access version



Access control is an effective way of securing and filtering vehicle access.

With over 30 years of experience, Capsys designs and produces its own range of magnetic detectors. The MFA detector of the new Mag-Flex range, allows to control in real time access for uses related to automated devices of doors, gates, barriers or retractable bollards.

Depending on requirements, detection can be based on vehicle size or direction of travel.

APPLICATIONS

- Access control and security
- Ease of movement
- Detection of high-guard vehicles
- Detection of vehicles with trailers
- Access according to size or direction of traffic
- Specific detection of bollards, barriers and motorway tolls

BENEFITS

- Detection adapted to specific applications
- Information on vehicle direction and size

Operating principle

The Access version of the MAG-FLEX range, operates on the principle of magnetic induction.

Combined with an induction loop placed in the ground, the vehicle detectors react to any presence or magnetic variation within its perimeter. They deliver permanent or time-calibrated detection information.

The reliability and stability of detection depend on the configuration of the detector and the care taken in creating and installing the loop.

The detectors are available in single or dual channel versions, depending on the application.

Specifications

Simple and flexible configuration with the Cap'Mobile application:

The Cap'Mobile application, once the detector is paired, allows:

- to adjust all the parameters (presence time, inductance, detection with AAS, frequency shift,...) and to configure the 2 outputs (technical fault, NO/NF,...)
- to support the installer: real-time display of magnetic imprint, product status, inductance, frequency, ...

PRODUCT ADVANTAGES

- 100% Capsys design
- Eco-designed product
- Compact for better integration into the environment
- Detection performance and reliability
- Versatile installation
- Simple, intuitive configuration and installation assistance with Cap'Mobile



Automatic Adjustment of Sensitivity (AAS)

The Automatic Adjustment of Sensitivity function ensures safe detection of high-guard vehicles or vehicles with trailers by automatically increasing the sensitivity level of the detector to ensure reliable and complete vehicle detection.

Adjustable presence time

All access detectors have a configurable presence time from 0 to 80mn with factory setting at 0mn.

Ease of installation and resistance to vibration

The new 11-pin connector (simple mounting on DIN RAIL) of the detector ensures excellent product retention and high vibration resistance.

Technical alarm on all single-loop detectors

Self test

On power-up, the entire installation is checked automatically and then gives way to permanent monitoring.

Technical characteristics

Technology	Magnetic detection by inductive loop
Sensitivity	Constant over the whole inductance range used
Loop inductance	Min = 20 μ H / max 1500 μ H
Response time	60ms
Power supply	230VAC or 10-24VAC/DC
Consumption	12 V : 500mW 24 V : 900 mW 230V : 8W
Dimensions	h82mm x l42mm x p47mm (without plug)
Weight	95g (version 230VAC) - 58g (version 10-24VACDC)
Outputs	2 configurables optocoupler outputs
Maximum load current	Max 80mA
AC blocking voltage	30Vac
DC blocking voltage	36Vdc
Connection	plug 11-pin circular socket FINDER 90.83.3 recommended
IP	40
Temperature	-20°C à + 70°C -40°C à +80°C
• operation temperature	
• storage temperature	
MTBF	> 300 000 h
Interfaces	Setting: Cap'Mobile application by bluetooth Display: Cap'Mobile application and LED on the front panel
Compliance	European Directive RED 2014/53/EU Class 2/3