

# MAG-FLEX - MFT MAGNETIC SENSORS

*Detection - Traffic version*



The MFT detector of the new Mag-Flex range provides complete solutions to facilitate and improve the safety of traffic flows.

The “traffic version” of the detectors, thus meet the needs of fluidification of urban traffic, road or motorway.



## APPLICATIONS

- Traffic light regulation
- Management of the traffic flow
- Priority at traffic light
- Green request
- Rapid, size or direction detection
- Counting

## BENEFITS

- Traffic control & securing
- Adaptation of detection to use cases

## Operating principle

MFT sensors are associated with an induction loop placed in the ground. They react to any magnetic presence or variation within their perimeter. They deliver permanent or calibrated detection information over time.

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

The detectors are available in single loop or two loops versions depending on the application.

MFT detectors are used for many types of application from the simple vehicle detection to more specific ones such as size, directional, rapid detection or more specific for tramways ...

## Specifications

**Simple and flexible configuration with the Cap'Mobile application:**

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

- to adjust all the parameters of the loops (presence time, sensitivity, AAS, threshold) and to configure the 2 outputs (technical fault, detection holding time, pulse detection, NO/NC, activation/deactivation.....).



## PRODUCT ADVANTAGES

- New, compact design for better integration into the environment
- Sustainable & robust product
- Low power consumption
- Easy to install / Simple configuration with Cap'Mobile
- High detection reliability and accuracy
- Installation aid tool



- to support the installer: display of the loop inductance, of the frequency, real-time visualisation of the vehicle magnetic imprint

### Adjustable presence time

All traffic detectors have a configurable presence time from 0 to 80mn with factory setting at 4mn.

### Ease of installation and resistance to vibrations

The new 11-pin connector of the detector ensures excellent product holding and significant vibration resistance.

### Technical alarm on all single-loop detectors

### Specific version for fast detection

For application requiring fast detection, the reaction time is 5ms with only 1 measurement to confirm the detection.

### 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 $\mu$ H / max 1500 $\mu$ H
Response time	60ms except fast version 5ms
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	11-pin circular socket model FINDER 90.83.3 recommended
IP	40
Temperature	-20°C à + 70°C
• operation temperature	-40°C à +80°C
• 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 depending on version