

MAG-FLEX RANGE - INSTALLATION GUIDE SINGLE-CHANNEL VERSION

4. TECHNICAL CHARACTERISTICS

Sensitivity $\Delta L/L$	Constant over the entire operating inductance range
Loop inductance	20 to 1,500 μH
Response time	60 ms / 5 ms for the high-speed version
Power supply	230 VAC or 12-24 VAC/DC
Consumption	12 V : 500 mW 24 V : 900 mW 230 V : 8W
Outputs	2 configurable optocoupled outputs Max 80 mA / 30 VAC / 36 VDC
Cabling	11 pin circular socket FINDER 90.83.3 socket recommended
IP	IP40
Temperature - Operating - Storage	-20°C to +70°C -40°C to +80°C
Dimension (H x W x D)	82 x 42 x 47 mm (excluding socket)
Weight	95 g (230 VAC version) / 58 g (12-24 VAC/DC version)
Interface	Configuration: Cap'Mobile application by Bluetooth Status display: Cap'Mobile application and front-panel LEDs
Compliance	 European directive RED 2014/53/EU  2012/19/UE (DEEE)

This product complies with applicable EU legislation and may therefore be placed on the European market.

This product must not be disposed of with household waste. As electrical and electronic equipment, it must be recycled in accordance with the applicable national regulations to protect the environment and human health.

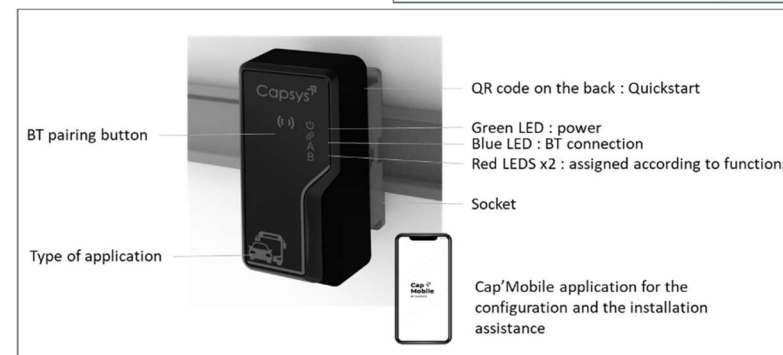
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1. PRODUCT OVERVIEW

A magnetic detection system consists of a detector and an inductive loop installed in the road surface (not supplied). System performance and reliability depend on the detector settings as well as on correct loop installation and positioning.

The MAG-FLEX range includes three versions designed for the following applications: traffic (MFTx), access control (MFAx) and cycle detection (MFCx).



2. INSTALLATION

2.1. INDUCTIVE LOOP REALIZATION

To ensure correct loop installation and optimum system performance, we recommend referring to our loop installation guidelines, available upon request. [Ref.: CE63001].

Warning: Specific installation guidelines apply to loops intended for cycle detection (available upon request). [Ref.: CE63000]

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2.2. INSTALLATION AND CABLING

The detector must be installed in an earthed metal enclosure that complies with the applicable regulatory requirements, including the Low Voltage Directive.

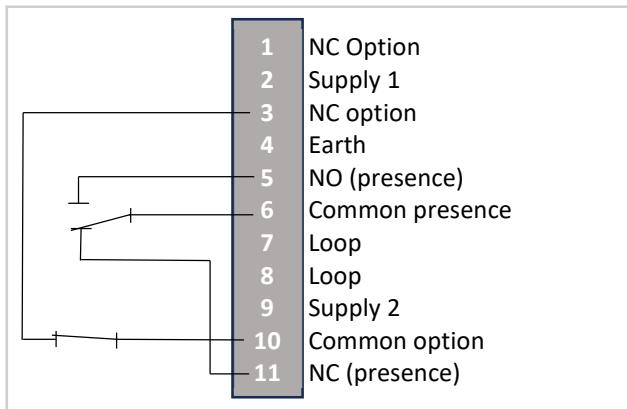
❶ Connect the socket according to the wiring diagram below. Wiring must be carried out with the power supply switched off and the detector unplugged from its socket.

The FINDER 90.83.3 11-pin screw-terminal socket is recommended

Permissible conductor cross-sections: one conductor up to 6 mm² or two conductors up to 4 mm² per terminal.

11-pin screw-terminal socket

Electrical wiring diagram – Factory configuration. State shown: detector powered, no detection (fail-safe operation).



* NO = Normally Open / NC = Normally Closed

The power supply must be protected by an external circuit breaker: 2 to 5 A for the 12–24 VAC/DC version; type C, 2 to 20 A, for the 230 VAC version.

Warning: During normal operation, the LED associated with the technical fault output is ON. The LED switches OFF when a technical fault is detected.

❷ After checking the wiring, plug the detector into its socket.

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Compatibility with previous product ranges :

	SINGLE CHANNEL	
MAG-FLEX	Standard traffic	Standard access
ST/TL	Standard, STM-XXX-XXC(-XXX) STM-XXX-XX8(-XXX) STM-XXX-XXS(-XXX)	TLM- xxx-xxx

3. CONFIGURATION WITH CAP'MOBILE

The MAG-FLEX detector is configured using the Cap'Mobile application. The application allows you to configure the detector and its outputs, view loop inductance and frequency values, and monitor detections in real time.

First connection:

- 1- Download and install the Cap'Mobile application on Android, Apple and Windows.



1. Create a user account.
2. Activate your account using **the link provided in the activation email.**
3. Log in to Cap'Mobile.
4. Once connected to Cap'Mobile, select the magnetic detector from the list of products to be added.
5. Press the pairing button on the detector front panel. The blue LED flashes during pairing.
NOTE: Pressing the pairing button is only required during initial pairing with Cap'Mobile
6. Then, in Cap'Mobile, select Settings to configure the detector and its outputs.

Parameter changes are applied to the detector in real time.