

N.B : This leaflet concerns the sensors from the MFxB serie which the outputs contacts are the following ones off power:

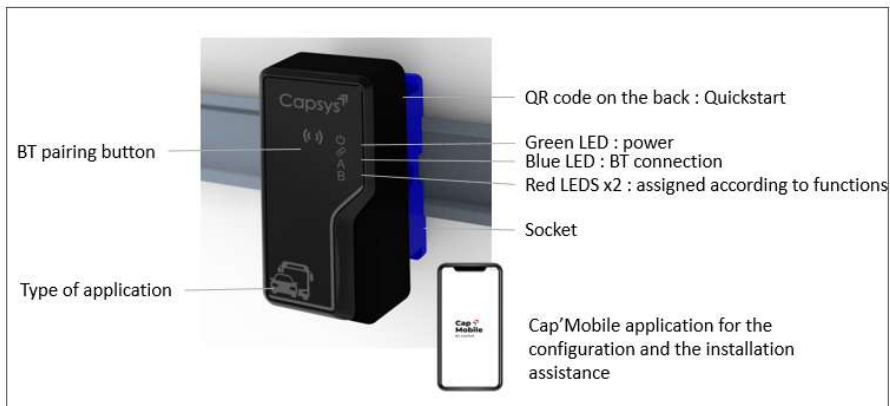
Output 1 : contact closed

Output 2 : contact closed

1. PRESENTATION

A magnetic detection system consists of a detector and a magnetic loop (not supplied). Its reliability and stability depend on the configuration of the detector and the care taken in the realization and implementation of the loop (standard and cycle loop realization available on request).

The MAG-FLEX magnetic sensors range includes 2 detector versions depending on the application: traffic (MFTx) and access (MFAx).



2. INSTALLATION

2.1. RECOMMENDATIONS FOR REALIZATION OF LOOPS

For the realization of the loops and the performance of your system, we highly suggest you to consult our recommendations for realization of loops, available on request.

2.2. INSTALLATION ET RACCORDEMENT

The detector must be installed in a metal enclosure linked to the ground that meets the Low Voltage directive.

❶ Unplug the detector from the socket and connect the socket power according to the table below

It is recommended to use the socket from FINDER model 90.83.3.

(If 1 section wire : max. section of 6 mm² or 2 section wires : max. section of 4 mm²)

(Factory settings in bold)

Numbered markers (socket)	DUALCHANNEL
1	Power
2	Power
3	Loop 1
4	Loop 1
5	Loop 2
6	Loop 2
7	NO/NC OB
8	Common OB
9	Ground
10	Common OA
11	NO/CF OA

Device power on

*Non-polarized device: OA = output A and OB = output B

The power supply must be protected with an external circuit breaker from 2A to 5A for version 12-24 VAC/DC and by an external circuit breaker type C from 2A to 20A for version 230 VAC.

The outputs can be configured (**NO or NC...**), once the detector is powered with the Cap'Mobile application

Status of the 2 presence outputs

(Factory settings in bold)

Setting PRESENCE	Power off	Power on		
		Out of detection	Detection	Defect
NO	Closed	Open	Closed	Closed
NC	Closed	Closed	Open	Open
Led	Off	Off	On	Blinking

Warning: once the detector is powered, the output LED configured as a technical defect is on unless technical defect.

Compatibility with former ranges: The MAG-FLEX dualchannel detectors are compatible with the detectors of the former ranges STB/STD.

- 2 Plug the detector on its socket.

3. CONFIGURATION AND TESTS

The configuration of the magnetic detectors is carried out using the Cap'Mobile application (min v1.1.4). It allows to configure the products as well as the outputs (NO/NC, etc.), to access the inductance and frequency information, to visualize in real time the detections, ...

For the first login, download the Cap'Mobile application  on a smartphone or a tablet and create the user account.



Make sure to confirm the e-mail address of the account into the account creation mail.

Once connected o Cap'Mobile :

- 1 Select the magnetic detector upon the products to add on
- 2 Pair the detector with the Cap'Mobile application by pressing the pairing button on the front panel, the blue LED on the front panel flashes.
N.B : manual action only required at the first connection
- 3 Then click on Settings to configurate the detector and its outputs.

All the settings modifications are made in live.

4. TECHNICAL CHARACTERISTICS

Sensitivity DL/L	Constant over the inductance range used
Loop inductance	Min = 20 µH / max 1500 µH
Reaction time	60 ms except rapid version 5 ms
Power	230 VAC or 10-24 VAC/DC
Consumption	12 V : 500 mW 24 V : 900 mW 230 V : 8 W
Output type	2 configurable optocoupler outputs. Max 80 mA / 30 VAC / 36 VDC
Cabling	11 pin circular socket Socket FINDER 90.83.3 recommended
IP	40
Temperature	-20°C to + 70°C -40°C to +80°C
Dimension / weight	h82mm x l42mm x p47mm (socket not included) 95 g (230 VAC version) – 58 g (12-24 VACDC version)
Interface	Settings : Cap'Mobile application by Bluetooth Display : Cap'Mobile application and LED on front panel
Compliance	European directive RED 2014/53/EU

This product complies with EU legislation and allows its free movement within the European market. This product should not be disposed of in household waste. As an electrical and electronic device, it must be recycled to ensure respect for the environment and human health, according to the legislation of the country.



Capsys France

Parc Technologique des Fontaines
F - 38190 BERNIN

Tél. : +33 (0)4 76 08 90 75 - Fax: +33 (0)4 76 08 89 85

Web: <http://www.capsys.eu>

E-mail : contact.capsys@capsys.eu