

MAGNETIC LOOP CONTROL DEVICE

SERIES **R** ACCESSORIES

SMA



English EN

MAGNETIC LOOP CONTROL DEVICE

SERIES **R** ACCESSORIES

SMA



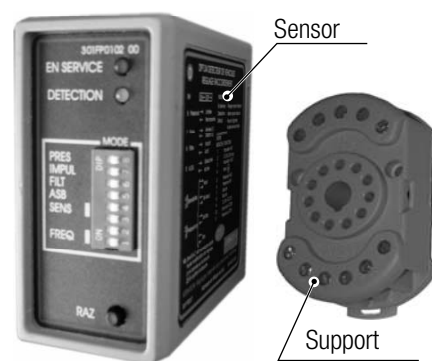
English EN

1. DESCRIPTION

The 1 channel SMA sensor is a vehicle detector using electromagnetic loops. It is fitted with a microprocessor and has been designed for access and traffic flow controls

The operating principle involves measuring the inductance variation in the magnetic loop caused when a vehicle passes over it.

SMA is complete with an 11-pin support/terminal block for connection to the loops and the 12 or 24 Vac/dc power supply.



2. TECHNICAL FEATURES

ELECTRIC SPECIFICATIONS

Supply voltage 12/24 V ac/dc

Current draw 20 mA max

Outlet relays Max capacity: 5 A at 230 Vac – Exchange contact

Magnetic loop inductance Between 20 and 1000 μ H

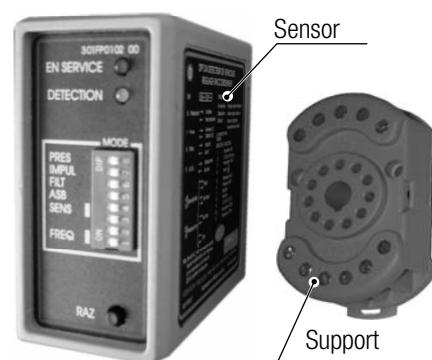
The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

1. DESCRIPTION

The 1 channel SMA sensor is a vehicle detector using electromagnetic loops. It is fitted with a microprocessor and has been designed for access and traffic flow controls

The operating principle involves measuring the inductance variation in the magnetic loop caused when a vehicle passes over it.

SMA is complete with an 11-pin support/terminal block for connection to the loops and the 12 or 24 Vac/dc power supply.



2. TECHNICAL FEATURES

ELECTRIC SPECIFICATIONS

Supply voltage 12/24 V ac/dc

Current draw 20 mA max

Outlet relays Max capacity: 5 A at 230 Vac – Exchange contact

Magnetic loop inductance Between 20 and 1000 μ H

The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

MECHANICAL SPECIFICATIONS

<i>Materials</i>	ABS plastic casing
<i>Fastenings</i>	Pressure sensor on the connector; connector mounted on DIN guides or screw in place
<i>Measurements LxHxP</i>	42 x 78 x 103 mm (sensor + connector)
<i>Weight</i>	230 g
<i>Operating temperature</i>	-40 / +70 °C
<i>Protection rating</i>	IP30

FUNCTIONAL SPECIFICATIONS

<i>Sensitivity</i>	4 ranges, selected through 2 dipswitches: - High sensitivity: 0.02%, L/L - Medium-high sensitivity: 0.05%, L/L - Medium-low sensitivity: 0.10% L/L - Low sensitivity: 0.50% L/L
<i>Working frequency</i>	High or low frequency, selected from a dipswitch; the frequency level depends on the size of the magnetic loop
<i>Output impulse length</i>	200 ms
<i>Response time</i>	100 ms
<i>Visual indicators</i>	- 1 red power on led - 1 green sensor on led
<i>Relay outputs</i>	2 "Presence" or "Impulse" mode outputs

The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

MECHANICAL SPECIFICATIONS

<i>Materials</i>	ABS plastic casing
<i>Fastenings</i>	Pressure sensor on the connector; connector mounted on DIN guides or screw in place
<i>Measurements LxHxP</i>	42 x 78 x 103 mm (sensor + connector)
<i>Weight</i>	230 g
<i>Operating temperature</i>	-40 / +70 °C
<i>Protection rating</i>	IP30

FUNCTIONAL SPECIFICATIONS

<i>Sensitivity</i>	4 ranges, selected through 2 dipswitches: - High sensitivity: 0.02%, L/L - Medium-high sensitivity: 0.05%, L/L - Medium-low sensitivity: 0.10% L/L - Low sensitivity: 0.50% L/L
<i>Working frequency</i>	High or low frequency, selected from a dipswitch; the frequency level depends on the size of the magnetic loop
<i>Output impulse length</i>	200 ms
<i>Response time</i>	100 ms
<i>Visual indicators</i>	- 1 red power on led - 1 green sensor on led
<i>Relay outputs</i>	2 "Presence" or "Impulse" mode outputs

The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

3. INSTALLING THE MAGNETIC LOOPS

3.1. Operating principles

The inductive loop sensor detects the presence of a vehicle on the surface marked out by a cabled loop, formed of 2 or more runs of leads beneath the road surface.

When a vehicle goes over the loop the relative inductance measured by the sensor is reduced.

This detection activates a relay and its contacts are used to guide the external devices.

The magnetic loop and the loop tail must be formed of a simple isolated lead, without any connections, in multithread copper, with a minimum section of 1.5 mm² (16 AWG).

It is not advisable to make connections to the magnetic loop or to the power pack. However, if it is unavoidable they must be welded and isolated in a waterproof case.

This is very important to guarantee long lasting detection reliability.

3.2. Operating limits

3.2.1. Use of adjacent SMA sensors

When the magnetic loops are too close to each other, the respective magnetic fields could overlap and disturb the detection or damage the sensors.

There are various solutions to prevent this:

- use different frequencies for each magnetic loop.
- keep the two groups of loops at least 2 meters away from each other.

3.2.2. Interference caused by metal masses

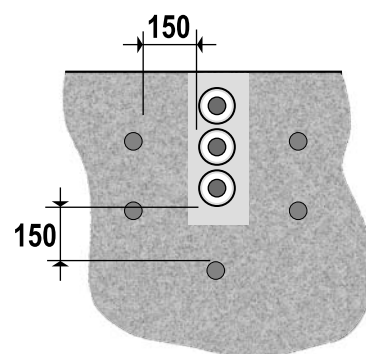
If there is any metal under the loops, especially if they are laid in reinforced concrete, it reduces the impedance and consequently the sensitivity of the sensor.

To compensate this reduction, two turns can be added to the detection loop.

Otherwise provide a minimum space of 150 mm between the magnetic loop and the reinforcing.

If the loop tail is channelled with other cables, ensure that they are screened.

Clean and dry the cable duct before laying the cable.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

3. INSTALLING THE MAGNETIC LOOPS

3.1. Operating principles

The inductive loop sensor detects the presence of a vehicle on the surface marked out by a cabled loop, formed of 2 or more runs of leads beneath the road surface.

When a vehicle goes over the loop the relative inductance measured by the sensor is reduced.

This detection activates a relay and its contacts are used to guide the external devices.

The magnetic loop and the loop tail must be formed of a simple isolated lead, without any connections, in multithread copper, with a minimum section of 1.5 mm² (16 AWG).

It is not advisable to make connections to the magnetic loop or to the power pack. However, if it is unavoidable they must be welded and isolated in a waterproof case.

This is very important to guarantee long lasting detection reliability.

3.2. Operating limits

3.2.1. Use of adjacent SMA sensors

When the magnetic loops are too close to each other, the respective magnetic fields could overlap and disturb the detection or damage the sensors.

There are various solutions to prevent this:

- use different frequencies for each magnetic loop.
- keep the two groups of loops at least 2 meters away from each other.

3.2.2. Interference caused by metal masses

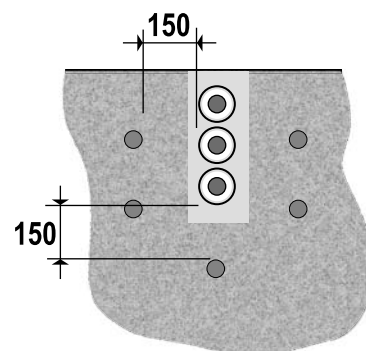
If there is any metal under the loops, especially if they are laid in reinforced concrete, it reduces the impedance and consequently the sensitivity of the sensor.

To compensate this reduction, two turns can be added to the detection loop.

Otherwise provide a minimum space of 150 mm between the magnetic loop and the reinforcing.

If the loop tail is channelled with other cables, ensure that they are screened.

Clean and dry the cable duct before laying the cable.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

3.3. Magnetic loop geometry

3.3.1. Dimensions

The magnetic loop must be rectangular with the longest side perpendicular to the circulation direction. There must be a minimum width of 1 m.

The surface must measure at least 1 m² and no more than 30 m². For a traditional road we advise an area of 1.5 – 2 m².

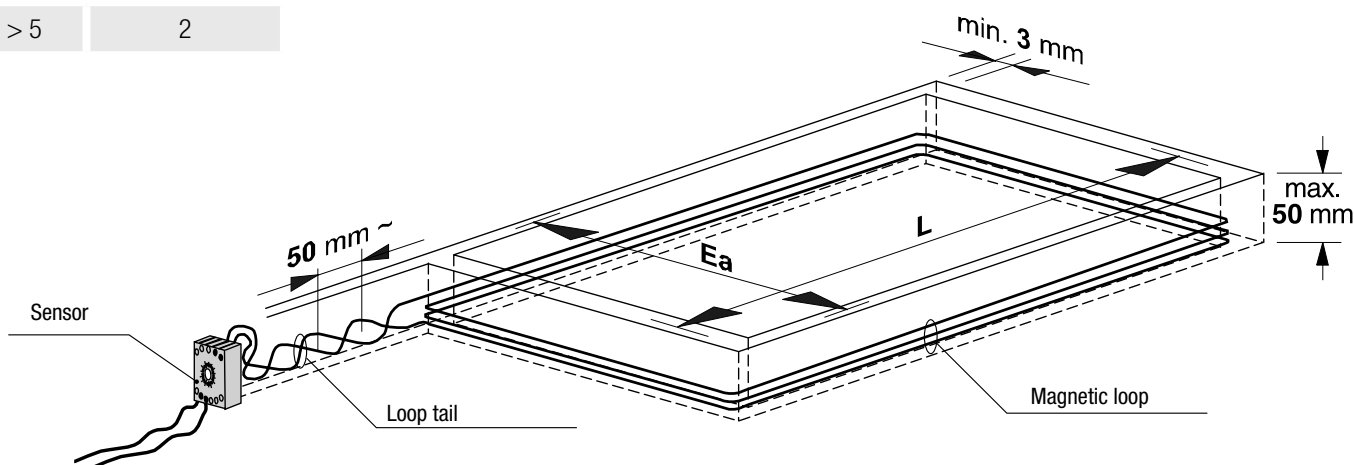
Table with indication of the number of turns per surface:

Area m ²	Number of turns
< 3	4
3 < 5	3
> 5	2

3.3.2. Magnetic loop tail

The tail is the connecting lead between the magnetic loop and the sensor. It is formed of a twisted, armoured cable, or a pair in isolated multi-pole copper, with a minimum section of 1.5 mm² and twisted with 20 turns per meter.

The tail must not be any longer than 25 m.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

3.3. Magnetic loop geometry

3.3.1. Dimensions

The magnetic loop must be rectangular with the longest side perpendicular to the circulation direction. There must be a minimum width of 1 m.

The surface must measure at least 1 m² and no more than 30 m². For a traditional road we advise an area of 1.5 – 2 m².

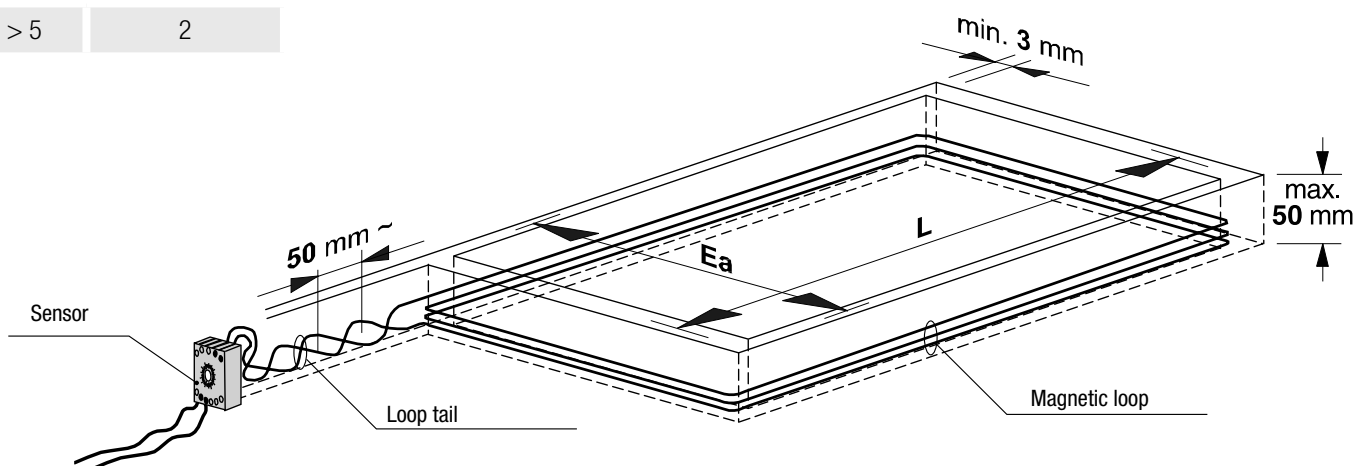
Table with indication of the number of turns per surface:

Area m ²	Number of turns
< 3	4
3 < 5	3
> 5	2

3.3.2. Magnetic loop tail

The tail is the connecting lead between the magnetic loop and the sensor. It is formed of a twisted, armoured cable, or a pair in isolated multi-pole copper, with a minimum section of 1.5 mm² and twisted with 20 turns per meter.

The tail must not be any longer than 25 m.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

4. CONNECTIONS

1	12 – 24 V ac/dc	7	Loop
2	12 – 24 V ac/dc	8	Loop
3	Impulse (NO)	9	Ground
4	Impulse (COM)	10	Presence (NC)
5	Presence (NO)	11	Impulse (NC)
6	Presence (COM)		



3-4-11 – Connection to the “Impulses” relay, which activates an opening command.

5-6-10 – Connection to the “presence” relay, with safety function (photocell type)

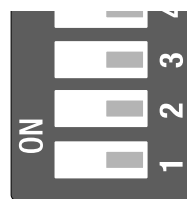
5. SETTING THE FUNCTIONS

5.1. Description

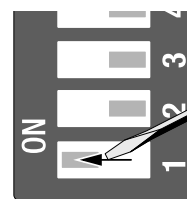
The leds and dipswitches for setting the functioning parameters are in the front part of the sensors.

Use a screwdriver for the ON/OFF selection.

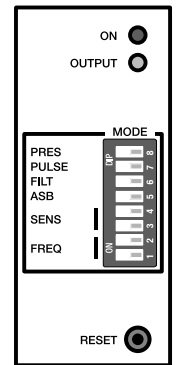
All the dipswitches are on OFF for default.



Dipswitch OFF
(default)



Dipswitch ON



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

4. CONNECTIONS

1	12 – 24 V ac/dc	7	Loop
2	12 – 24 V ac/dc	8	Loop
3	Impulse (NO)	9	Ground
4	Impulse (COM)	10	Presence (NC)
5	Presence (NO)	11	Impulse (NC)
6	Presence (COM)		



3-4-11 – Connection to the “Impulses” relay, which activates an opening command.

5-6-10 – Connection to the “presence” relay, with safety function (photocell type)

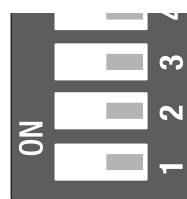
5. SETTING THE FUNCTIONS

5.1. Description

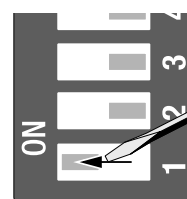
The leds and dipswitches for setting the functioning parameters are in the front part of the sensors.

Use a screwdriver for the ON/OFF selection.

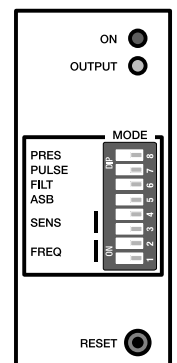
All the dipswitches are on OFF for default.



Dipswitch OFF
(default)



Dipswitch ON



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

5.2. Setting the parameters

5.2.1. Dipswitches 1 and 2: regulating working frequency

These dipswitches are used to select the working frequency for the magnetic loop: this is useful when there is more than one sensor in a confined area. Generally, high frequency is used for the magnetic loop with the highest inductance.

Dipswitch 1 and 2 OFF: Frequency is regulated on HIGH



Dipswitch 1 OFF and 2 ON: Frequency is regulated on MEDIUM-HIGH



Dipswitch 1 ON and 2 OFF: Frequency is regulated on MEDIUM-LOW



Dipswitches 1 and 2 ON: Frequency is regulated on LOW



5.2.2. Dipswitches 3 and 4 – Regulate sensitivity

These dipswitches are used to regulate the detection sensitivity. In areas with low selection or interference, it is advisable to lower the sensitivity.

Dipswitches 3 and 4 OFF: MAXIMUM detection sensitivity



Dipswitch 3 OFF and 4 ON: MEDIUM-MAXIMUM detection sensitivity.



Dipswitch 3 ON and 4 OFF: MEDIUM-MINIMUM detection sensitivity



Dipswitch 3 and 4 ON: MINIMUM detection sensitivity



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

5.2. Setting the parameters

5.2.1. Dipswitches 1 and 2: regulating working frequency

These dipswitches are used to select the working frequency for the magnetic loop: this is useful when there is more than one sensor in a confined area. Generally, high frequency is used for the magnetic loop with the highest inductance.

Dipswitch 1 and 2 OFF: Frequency is regulated on HIGH



Dipswitch 1 OFF and 2 ON: Frequency is regulated on MEDIUM-HIGH



Dipswitch 1 ON and 2 OFF: Frequency is regulated on MEDIUM-LOW



Dipswitches 1 and 2 ON: Frequency is regulated on LOW



5.2.2. Dipswitches 3 and 4 – Regulate sensitivity

These dipswitches are used to regulate the detection sensitivity. In areas with low selection or interference, it is advisable to lower the sensitivity.

Dipswitches 3 and 4 OFF: MAXIMUM detection sensitivity



Dipswitch 3 OFF and 4 ON: MEDIUM-MAXIMUM detection sensitivity.



Dipswitch 3 ON and 4 OFF: MEDIUM-MINIMUM detection sensitivity



Dipswitch 3 and 4 ON: MINIMUM detection sensitivity



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

5.2.3. Dipswitch 5 – automatically increases ASB sensitivity

This function automatically takes the sensor sensitivity to maximum, so that irregular shaped vehicles are recognised as well (e.g. lorries)

Dipswitch 5 OFF – Automatic sensitivity increase DEACTIVATED



Dipswitch 5 ON – Automatic sensitivity increase ACTIVATED



5.2.4. Dipswitch 6 – interference filter

This function filters any local interference if the magnetic loops are installed in a disturbed area.

Dipswitch 6 OFF – Interference filter DEACTIVATED



Dipswitch 6 ON – Interference filter ACTIVATED



5.2.5. Dipswitch 7 – Select the “Impulse” relay functioning mode

This function allows selecting whether the relay impulse is activated when a vehicle drives over the magnetic loop or when it leaves.

Dipswitch 7 OFF – ARRIVAL impulse activated



Dipswitch 7 ON – DEPARTURE impulse activated



5.2.6. Dipswitch 8 – Presence length

This dipswitch allows selecting either permanent or limited detection.

! *It is advisable to regulate this dipswitch on “permanent” to ensure access security.*

Dipswitch 8 OFF – LIMITED PRESENCE: the sensor activates the output relay for a preset time, after which the contact is released.



Dipswitch 8 ON – PERMANENT PRESENCE: the sensor leaves the output relay active for as long as the vehicle is over the magnetic loop.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

5.2.3. Dipswitch 5 – automatically increases ASB sensitivity

This function automatically takes the sensor sensitivity to maximum, so that irregular shaped vehicles are recognised as well (e.g. lorries)

Dipswitch 5 OFF – Automatic sensitivity increase DEACTIVATED



Dipswitch 5 ON – Automatic sensitivity increase ACTIVATED



5.2.4. Dipswitch 6 – interference filter

This function filters any local interference if the magnetic loops are installed in a disturbed area.

Dipswitch 6 OFF – Interference filter DEACTIVATED



Dipswitch 6 ON – Interference filter ACTIVATED



5.2.5. Dipswitch 7 – Select the “Impulse” relay functioning mode

This function allows selecting whether the relay impulse is activated when a vehicle drives over the magnetic loop or when it leaves.

Dipswitch 7 OFF – ARRIVAL impulse activated



Dipswitch 7 ON – DEPARTURE impulse activated



5.2.6. Dipswitch 8 – Presence length

This dipswitch allows selecting either permanent or limited detection.

! *It is advisable to regulate this dipswitch on “permanent” to ensure access security.*

Dipswitch 8 OFF – LIMITED PRESENCE: the sensor activates the output relay for a preset time, after which the contact is released.



Dipswitch 8 ON – PERMANENT PRESENCE: the sensor leaves the output relay active for as long as the vehicle is over the magnetic loop.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

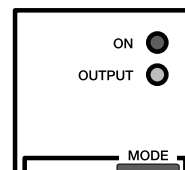
5.3. Signal leds

5.3.1. Red led

- Red led on – signals that the power is turned on.

5.3.2. Green led

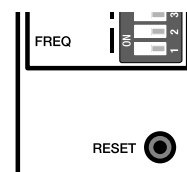
- During normal functions, each time a vehicle passes over the magnetic loop the green led lights up for a moment to signal it has detected the vehicle.
- Each time the device is turned off (before activating or after the power is turned back on) during automatic setting, the green led flashes for a few moments until the procedure has been completed.
- If the green led flashes twice for one second at regular intervals, it shows there is a fault in the detection loop.
- If the green led remains on and then goes off briefly when a vehicle passes (opposite to the normal function), it shows that there has been a fault or malfunction that has been solved independently: in this case reset the system.



5.4. Reset button

SMA automatically starts setting the magnetic loops when the device is turned on.

A new setting could be required manually, for example if the sensor parameters have been reset (changing the dipswitches): when the reset button is pressed the setting is started up.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

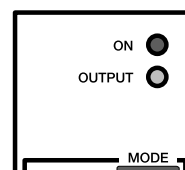
5.3. Signal leds

5.3.1. Red led

- Red led on – signals that the power is turned on.

5.3.2. Green led

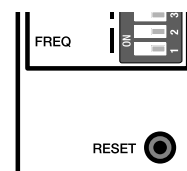
- During normal functions, each time a vehicle passes over the magnetic loop the green led lights up for a moment to signal it has detected the vehicle.
- Each time the device is turned off (before activating or after the power is turned back on) during automatic setting, the green led flashes for a few moments until the procedure has been completed.
- If the green led flashes twice for one second at regular intervals, it shows there is a fault in the detection loop.
- If the green led remains on and then goes off briefly when a vehicle passes (opposite to the normal function), it shows that there has been a fault or malfunction that has been solved independently: in this case reset the system.



5.4. Reset button

SMA automatically starts setting the magnetic loops when the device is turned on.

A new setting could be required manually, for example if the sensor parameters have been reset (changing the dipswitches): when the reset button is pressed the setting is started up.



The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.

English - Manual code: 119RV03 ver. 0.1 03/2009 © CAME cancelli automatici s.p.a.
The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.
The declaration de conformity and other technical documentation are available on our website www.came.it
BUY-TO-SELL PRODUCT

<p>FRANCE - CAME France S.a. 7, Rue Des Haras - Z.i. Des Hautes Patures 92737 Nanterre Cedex - ☎ (+33) 1 46 13 05 05 - 📠 (+33) 1 46 13 05 00</p>	<p>CAME GmbH Nord - DEUTSCHLAND Akazienstraße, 9 16356 Seefeld - ☎ (+49) 33 3988390 - 📠 (+49) 33 39883985</p>
<p>FRANCE - CAME Automatismes S.a. 3, Rue Odette Jasse 13015 Marseille - ☎ (+33) 4 95 06 33 70 - 📠 (+33) 4 91 60 69 05</p>	<p>CAME GmbH Süd - DEUTSCHLAND Kornwestheimer Straße 37 70825 Korntal-Münchingen - ☎ (+49) 71 5037830 - 📠 (+49) 71 50378383</p>
<p>SPAIN - CAME Automatismos S.a. C/Juan De Mariana, N. 17-local 28045 Madrid - ☎ (+34) 91 52 85 009 - 📠 (+34) 91 46 85 442</p>	<p>CAME Americas Automation Llc - U.S.A 1560 Sawgrass Corporate Pkwy, 4th Floor Sunrise, FL 33323 - ☎ (+1) 305 433 3307 - 📠 (+1) 305 396 3331</p>
<p>SPAIN - CAME Automatismos Catalunya S.a. P.i. Moli Dels Frares N. 23 C/a 08620 Sant Vicenc Del Horts - ☎ (+34) 93 65 67 694 - 📠 (+34) 93 67 24 505</p>	<p>CAME Middle East Fzco - U.A.E. Po Box 17131 Warehouse N. Be02 - South Zone, Jebel Ali Free Zone Dubai - ☎ (+971) 4 8860046 - 📠 (+971) 4 8860048</p>
<p>PORTUGAL - Paf - CAME Estrada Nacional 249-4 Ao Km 4,35 - Cabra Figa - Trajouce 2635-047 Rio De Mouro - ☎ (+351) 219 257 471 - 📠 (+35) 219 257 485</p>	<p>CAME Polska Sp.Zo.o - POLAND Ul. Orдона 1 01-237 Warszawa - ☎ (+48) 22 8365076 - 📠 (+48) 22 8363296</p>
<p>UNITED KINGDOM - CAME United Kingdom Ltd. Unit 3 Orchard Business Park - Town Street, Sandiacre Nottingham Ng10 5du - ☎ (+44) 115 9210430 - 📠 (+44) 115 9210431</p>	<p>S.c. CAME Romania S.r.l. - ROMANIA B-dul Mihai Eminescu, Nr. 2, Bloc R2 - Scara A, Parter, Ap. 3 Buftea, Judet Ilfov Bucarest - ☎ (+40) 21 3007344 - 📠 (+40) 21 3007344</p>
<p>BELGIUM - CAME Belgium Sprl Zoning Ouest 7 7860 Lessines - ☎ (+32) 68 333014 - 📠 (+32) 68 338019</p>	<p>CAME Russia - RUSSIA Leningradskij Prospekt, Dom 80 - Pod'ezd 3, office 608 125190, Moskva - ☎ (+7) 495 937 33 07 - 📠 (+7) 495 937 33 08</p>



<p>ITALIA - CAME Cancelli Automatici S.p.a. Via Martiri Della Libertà, 15 31030 Dosson Di Casier (TV) - ☎ (+39) 0422 4940 - 📠 (+39) 0422 4941 Informazioni Commerciali 800 848095 - www.came.it</p>	<p>CAME Nord s.r.l. - ITALIA Piazza Castello, 16 20093 Cologno Monzese (MI) - ☎ (+39) 02 26708293 - 📠 (+39) 02 25490288</p>
<p>ITALIA - CAME Service Italia S.r.l. Via Della Pace, 28 31030 Dosson di Casier (TV) - ☎ (+39) 0422 383532 - 📠 (+39) 0422 490044 Assistenza Tecnica 800 295830</p>	<p>CAME Sud s.r.l. - ITALIA Via F. Imparato, 198 - Cm2 Lotto A/7 80146 Napoli - ☎ (+39) 081 7524455 - 📠 (+39) 081 7529109</p>

English - Manual code: 119RV03 ver. 0.1 03/2009 © CAME cancelli automatici s.p.a.
The data and information reported in this installation manual are susceptible to change at any time and without obligation on CAME cancelli automatici s.p.a. to notify users.
The declaration de conformity and other technical documentation are available on our website www.came.it
BUY-TO-SELL PRODUCT

<p>FRANCE - CAME France S.a. 7, Rue Des Haras - Z.i. Des Hautes Patures 92737 Nanterre Cedex - ☎ (+33) 1 46 13 05 05 - 📠 (+33) 1 46 13 05 00</p>	<p>CAME GmbH Nord - DEUTSCHLAND Akazienstraße, 9 16356 Seefeld - ☎ (+49) 33 3988390 - 📠 (+49) 33 39883985</p>
<p>FRANCE - CAME Automatismes S.a. 3, Rue Odette Jasse 13015 Marseille - ☎ (+33) 4 95 06 33 70 - 📠 (+33) 4 91 60 69 05</p>	<p>CAME GmbH Süd - DEUTSCHLAND Kornwestheimer Straße 37 70825 Korntal-Münchingen - ☎ (+49) 71 5037830 - 📠 (+49) 71 50378383</p>
<p>SPAIN - CAME Automatismos S.a. C/Juan De Mariana, N. 17-local 28045 Madrid - ☎ (+34) 91 52 85 009 - 📠 (+34) 91 46 85 442</p>	<p>CAME Americas Automation Llc - U.S.A 1560 Sawgrass Corporate Pkwy, 4th Floor Sunrise, FL 33323 - ☎ (+1) 305 433 3307 - 📠 (+1) 305 396 3331</p>
<p>SPAIN - CAME Automatismos Catalunya S.a. P.i. Moli Dels Frares N. 23 C/a 08620 Sant Vicenc Del Horts - ☎ (+34) 93 65 67 694 - 📠 (+34) 93 67 24 505</p>	<p>CAME Middle East Fzco - U.A.E. Po Box 17131 Warehouse N. Be02 - South Zone, Jebel Ali Free Zone Dubai - ☎ (+971) 4 8860046 - 📠 (+971) 4 8860048</p>
<p>PORTUGAL - Paf - CAME Estrada Nacional 249-4 Ao Km 4,35 - Cabra Figa - Trajouce 2635-047 Rio De Mouro - ☎ (+351) 219 257 471 - 📠 (+35) 219 257 485</p>	<p>CAME Polska Sp.Zo.o - POLAND Ul. Orдона 1 01-237 Warszawa - ☎ (+48) 22 8365076 - 📠 (+48) 22 8363296</p>
<p>UNITED KINGDOM - CAME United Kingdom Ltd. Unit 3 Orchard Business Park - Town Street, Sandiacre Nottingham Ng10 5du - ☎ (+44) 115 9210430 - 📠 (+44) 115 9210431</p>	<p>S.c. CAME Romania S.r.l. - ROMANIA B-dul Mihai Eminescu, Nr. 2, Bloc R2 - Scara A, Parter, Ap. 3 Buftea, Judet Ilfov Bucarest - ☎ (+40) 21 3007344 - 📠 (+40) 21 3007344</p>
<p>BELGIUM - CAME Belgium Sprl Zoning Ouest 7 7860 Lessines - ☎ (+32) 68 333014 - 📠 (+32) 68 338019</p>	<p>CAME Russia - RUSSIA Leningradskij Prospekt, Dom 80 - Pod'ezd 3, office 608 125190, Moskva - ☎ (+7) 495 937 33 07 - 📠 (+7) 495 937 33 08</p>



<p>ITALIA - CAME Cancelli Automatici S.p.a. Via Martiri Della Libertà, 15 31030 Dosson Di Casier (TV) - ☎ (+39) 0422 4940 - 📠 (+39) 0422 4941 Informazioni Commerciali 800 848095 - www.came.it</p>	<p>CAME Nord s.r.l. - ITALIA Piazza Castello, 16 20093 Cologno Monzese (MI) - ☎ (+39) 02 26708293 - 📠 (+39) 02 25490288</p>
<p>ITALIA - CAME Service Italia S.r.l. Via Della Pace, 28 31030 Dosson di Casier (TV) - ☎ (+39) 0422 383532 - 📠 (+39) 0422 490044 Assistenza Tecnica 800 295830</p>	<p>CAME Sud s.r.l. - ITALIA Via F. Imparato, 198 - Cm2 Lotto A/7 80146 Napoli - ☎ (+39) 081 7524455 - 📠 (+39) 081 7529109</p>