

MAGNETIC FIELD

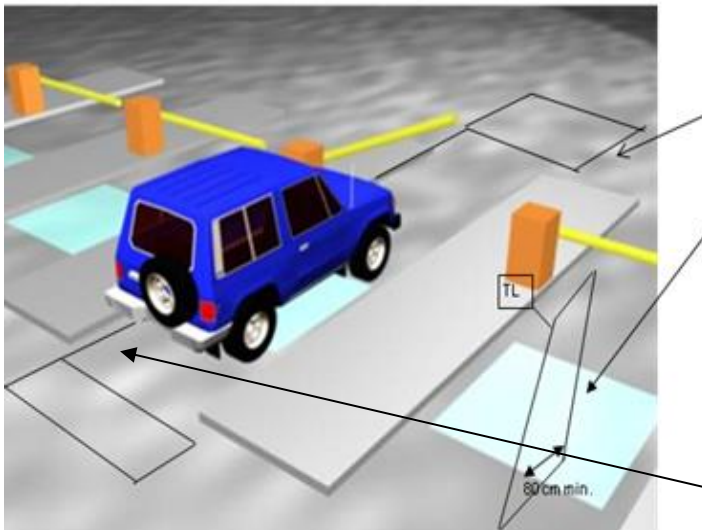
OPERATING SYSTEM BY MAGNETIC FIELD

OPERATION

On the Operating Systems by magnetic field installed in the Angel Mir doors, a rectangular coil (called loop), which generates a magnetic field, is placed on one or both sides of the door and inside a hole in the floor. This coil is connected to a controller that measures the frequency of the generated field.

The field changes when a vehicle crosses the loop. It is then when the controller detects it and gives a signal to the manoeuvring panel of the door. If the door is closed, it opens it. If it is open, it does not start the descend manoeuvre and, if it is lowering, it reverses the manoeuvre.

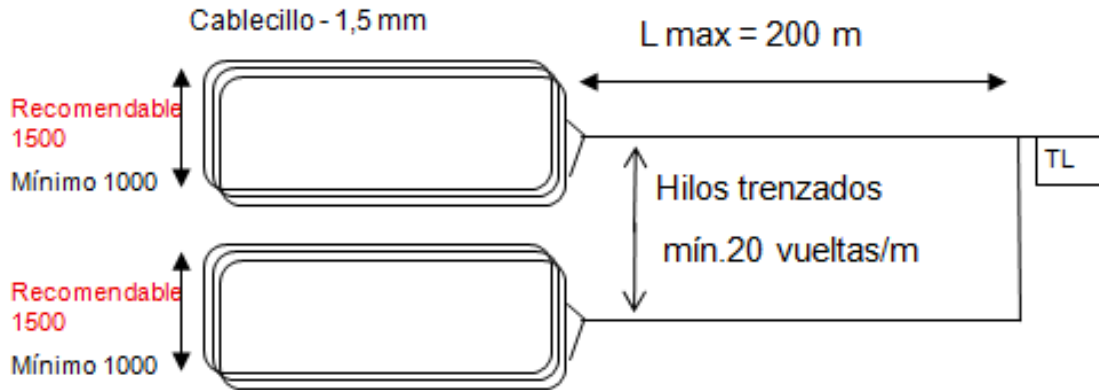
The loop must be installed at a minimum distance of 1000 mm. from the door or of any metallic piece and must be calculated according to the speed of the vehicle and that of the door. In the vast majority of occasions, the vehicle will have to adapt its speed to the door one.



The length must be calculated according to the length of the vehicle, tacking as a rule that the loop must be a bit smaller than the vehicle. That is, the vehicle must occupy at some point the two parallel sides of the rectangle, although when the first side is stepped on, the system already detects

Recommended length side 1500 mm or min. 1000 to reliably detect the high-chassis vehicles (4x4, PL, etc.).

The width of the loop must be calculated according to the sizes of the door and the type of vehicles that will drive there.

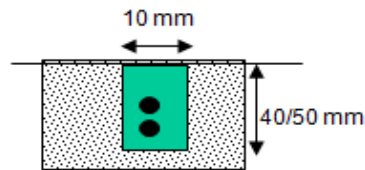


Perimeter P (If there are 2 loops in the same receiver, they must be added).	No. of coils for L < 50 m (for L > 50 m to add one coil).
1 - 4 m	4 - 8
4 - 8 m	3 - 4
8 - 16	2 - 3
16 m	1 - 2

A loop larger than 20 m perimeter is not recommended.

2 loops larger than 12 m perimeter (each) must go to independent amplifiers.

IMPORTANT: Chamfer or round the edges of the loop to avoid breakage in the cable.



CHARACTERISTICS

- ✓ It only detects metallic masses.
- ✓ To avoid large fields or very long connection cables as they influence the sensitivity.
- ✓ In case special materials to close the trench in the ground are needed, please contact our sales representatives.

VERY IMPORTANT

- ✓ If two loops are placed in the same amplifier, it must be done independently and TO TIE EACH OF THE EXITS UP TO THE AMPLIFIER and, once there, they must be connected in series. To achieve a good installation, the input and output wires of each loop must be identified so that, once arranged in series, the output wire of one loop and the input wire of the other must connect to one other. The remaining wires must be connected to the amplifier.

Characteristic	Details
Power supply	12...24 V AC/DC
Protection IP	IP40
Temperatures	-30...+70 °C

The information contained in this descriptive text is general for the referenced product. In no case is it binding or contractual. Portes Bisbal S.L. reserves the right to modify the features herein.