

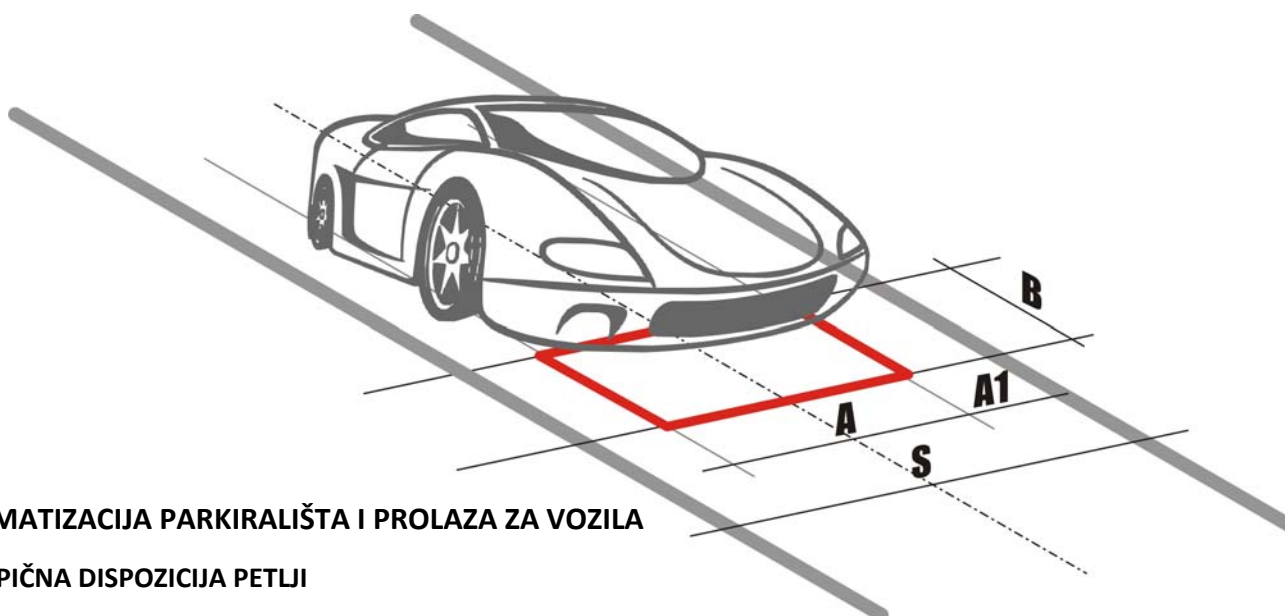
PRIRUČNIK

ZA IZRADU INDUKTIVNE PETLJE

ZA AUTOMOBILE I TERETNA VOZILA (inductive loops)

PRIMENA

Primarna primena je detekcija prisutnosti vozila, na saobraćajnici.

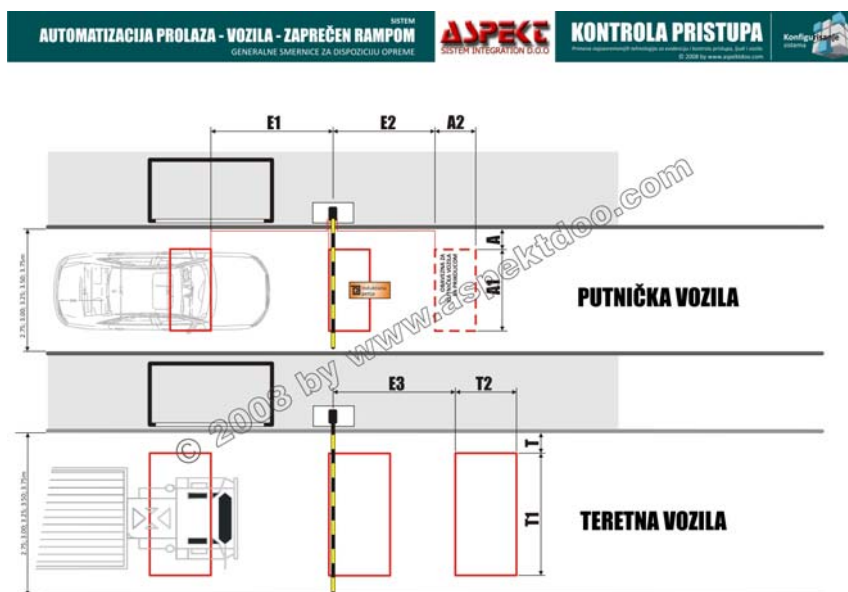


AUTOMATIZACIJA PARKIRALIŠTA I PROLAZA ZA VOZILA

TIPIČNA DISPOZICIJA PETLJI

Različite primere (realizovane sa naše strane) primene petlji i njihove dispozicije na kolovoznoj traci. Primena petlji i njihova dispozicija na kolovoznoj traci, kako za automobile, tako i za teretna vozila publikovali smo na adresi niže:

<http://www.aspektdoo.com/SRBDownload.html>



SLEDE PRIMERI, A KAKO TO RADE:

SWARCO, Nemačka
AUTOMATIC SYSTEMS, Belgija

Ovo što sledi su samo SMERNICE, NE BILO KAKVI STANDARDI! Broj krugova položenog kabla zavisi od odabranih kontrolera za petlje, vrste vozila, udaljenosti jedne od druge, najbolje je, a iz našeg ne malog iskustva, pre finalnog zatrpavanja kanala, proveriti FUNKCIONALNOST!!!

IZRADA INDUKTIVNIH PETLJI

Sve mere su u „mm“, i „de facto“ standard, a prema smernicama SWARCO, Nemačka.

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First In Traffic Solutions.



SWARCO TRAFFIC SYSTEMS GMBH

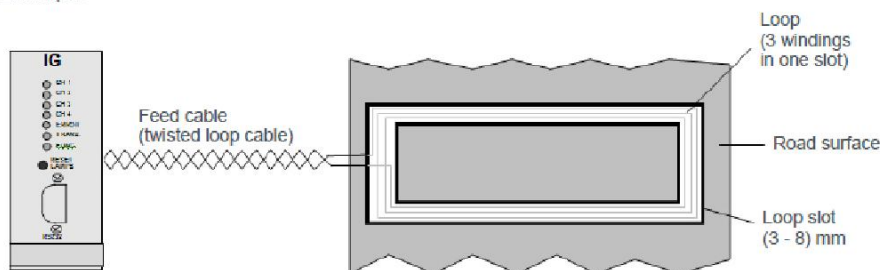
5 Installation of the Loop

In order to lay the loop into the ground covering, at first a slot must be cut into the concrete or asphalt with a diamond disk. This slot should be approx. (40 – 70) mm deep and (5 – 8) mm wide.

The next step is the cleaning of the slot. Dampness must be avoided. After that, the loop wire can be laid in.

As loop wire, a standard flexible and isolated copper line HO7V-K1.5 (NYAF1.5 mm²) can be used.

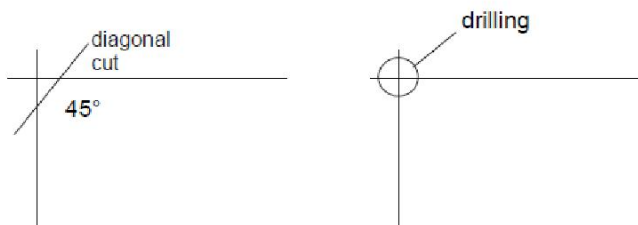
Example



If the loop is casted with hot bitumen, a temperature-resistant loop wire must be used.

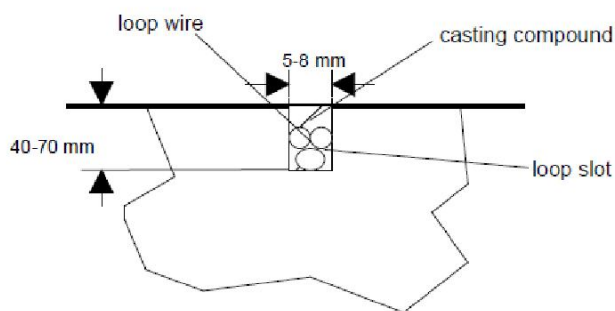
In the area of doors, gates and barriers, a diagonal joint are to be cut at the edges with an angle of 45°, through which the loop wire is led. With this you avoid putting too much strain on the edges of the loop cable.

In the area of motorways, the rounding off of the sharp joint edges by drilling is advisable. There is the danger of breaking edges because of the strain caused by passing vehicles. It is therefore better to do a drilling for this area.



Attention should be paid to the following points when laying induction loops:

- The ground covering must be continuously solid and without cracks.
- A diagonal joint must be cut at the joint edges or the edge must be drilled.
- When laying the loop wires into the slot pay special attention to the edges.
- The loop wire must not show any insulation damages.
- The loop wire must not stick out of any part of the slot, since the isolation will otherwise be destroyed or the wire will tear apart. When placing the loop wire it is better to fix it with wooden wedges to prevent a washing up during the casting.
- The loop slot must be clean, free of dust and dry before casting.
The loop wires mustn't move after the casting.
- The loop inductivity should be measured by means of an L-Meter or a loop diagnostic device.
- The insulation resistance is to be measured with an insulation testing device against earth. The measurement voltage is min. 500V resp. max. 1000 V. For this measurement, the resistance of loop against earth must be higher than 100 MΩ , for recently installed loops higher than 1 GΩ.



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