



READY-TO-USE LOOPS KAS

INDUCTIVE LOOPS AND ACCESSORIES

SWARCO TRAFFIC SYSTEMS GMBH is a member of the internationally active SWARCO group, the one-stop shop for road markings, signage, signalisation and traffic management – your reliable partner for traffic solutions.

LOOPS	CIRCUMFERENCE	NUMBER WINDINGS	L [μ H]	FEEDER CABLE
KAS 1	6 m	3	75 +/-20 %	15 m
KAS 2	12 m	3	140 +/-20 %	15 m
KAS 3	21 m	3	250 +/-20 %	15 m
RS (FRAME LOOP)	6 m (1 m x 2 m)	3	75 +/-20 %	10 m

Other dimensions are available on request.

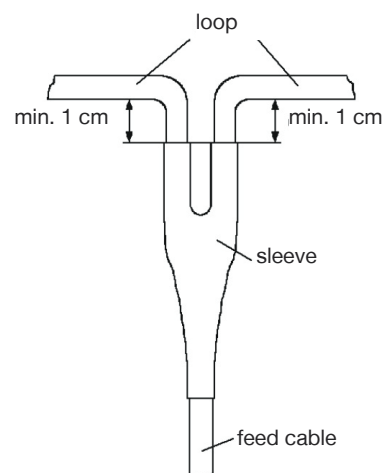
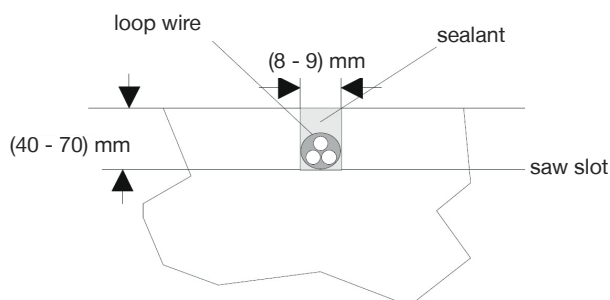
DESCRIPTION

The induction loops are usually installed in a square or rectangular shape. The installation in asphalt or concrete ground requires a saw slot with the following geometric dimensions: depth: approx. (40 – 70) mm, width: approx. (8 - 9) mm.

Depending on circumference and shape of the loop, different values of inductivity are obtained. Inductances of the loops above are within the optimal range of operation (60 – 300) μ H for SWARCO TRAFFIC SYSTEMS detectors. Within this range, the highest sensitivity is obtained.

The length of the loop feeder cable may be reduced!

Laying (KAS loops)



READY TO USE LOOPS KAS

Please observe before sealig:

- Saw slot must be dry and free of dust.
- Loop wire must be completely at the bottom of the saw slot. Wedges of wood or silicone may be used to fix the loop wire.
- Fill saw cut cleanly; use only as much sealant as needed to fill the slot.
- Let the sealant harden.
- The loop must not be able to move in the slot or in the duct, the loop position must not be changed.
- Change of the loop position may be caused by:
 - Crossing of heavy vehicles (HGV, tanks...)
 - Swinging bridges
 - Different materials, in which the loop is laid in, e.g. one-third of the loop laying in concrete, two-thirds in black top.

As sealant we recommend the SWARCO TRAFFIC SYSTEMS „two-component cold-sealant“ based on artificial resin. After installation it remains elastic even in low temperatures.

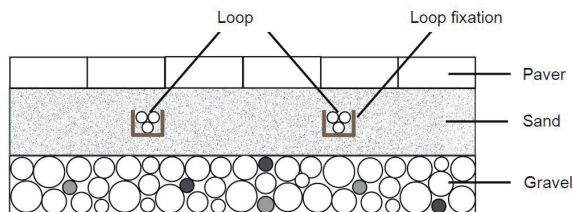
Attention:

Iron reinforcement in the ground reduces the sensitivity of inductance loops. The smaller the distance between loop and the reinforcement, the lower is the sensitivity. Tracks, girders, grating or steel constructions must be regarded as such reinforcements. If possible, avoid iron reinforcements during the planning-phase or lay loops lower.

Special areas of application (RS loop)

Loop installation underneath paving

Loops are laid in the sandstone layer between the lower gravel layer and the pavers.



One way to fixate a loop is by laying it in a cable duct. The cable duct must be completely sealed with a suitable sealant after inserting the loop wire (application-specific product by SWARCO TRAFFIC SYSTEMS).

- spread bedding sand and compact
- lay pavers and compact
- measure insulation resistance
- check functionality

For checking the loop values, SWARCO TRAFFIC SYSTEMS offers the loop diagnosis device SDG3000.

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SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS GMBH is one of the leading suppliers of intelligent traffic systems in Germany. Building on many decades of experience, it offers a wide range of innovative solutions for urban and interurban traffic management, including parking and traffic detection. Its nationwide service and maintenance network guarantees highest possible system availability and improved road safety. With economical, sustainable, and environmentally friendly technologies we help ensure smooth and safe traffic flows.



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