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Pre-assembled induction loops

General

Together with wire loops, the loop detectors act as sensors and form universal detection systems for the contact-free detection of vehicles and large metallic components.

A pre-assembled loop laid in the ground is used as the sensor element. The pre-assembled loop consists of a wire loop with several windings and a connection wire that is naturally already twisted.

After the groove has been countersunk, the pre-assembled loop only has to be inserted. This guarantees a quick and easy assembly. It is not necessary to count windings or measure the inductance, since this is guaranteed to be between 80 - 300 μ H. The risk of damaging the cable insulation while inserting the windings is also eliminated when a pre-assembled loop is used.

After the loop detector has been connected and the groove sealed, the loop detector system is ready for operation.

Notes on installation

1. Select the shortest loop connection wire possible and route it separately from any power lines.
2. If the loop is to be installed in soft ground, ensure that the loop and the connection wiring cannot be moved when vehicles run over them.
3. The distance to adjacent loops or movable metallic objects (sliding gates) must be at least 1 m.
4. A maximum distance should be kept from reinforced concrete, at least 40 mm. There must be no movable objects (e.g. gratings, gully covers) in the loop detection area.

Detailed mounting instructions are available.
(See www.bircher.com)

Benefits for the customer

- Easy installation
- Correct inductance for Bircher loop detectors
- Various dimensions

Technical data

Cable diameter of the loop:	6.8 mm
Cable diameter of the connection wire:	6.4 mm
Loop cable:	3 x 0.75 mm ²
Connection wire:	2 x 0.75 mm ² , twisted
Loop inductance:	80–300 μ H
Material:	PVC
Colour:	grey RAL 7000

Ordering information

Article no.	Loop circumference	Connection wire
SF6/15	6 m	15 m
SF12/15	12 m	15 m
SF21/30	21 m	30 m

Other dimensions on request

The following key data must be taken into account when ordering:

Loop circumference: minimum 6 m
maximum 25 m
Connection wire: maximum 50 m

Your contact

BBC Bircher Smart Access

Wiesengasse 20
8222 Beringen
Switzerland
Phone +41 52 687 11 11
info@bircher.com
www.bircher.com

Note:

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