



**Antenna details of  
TS ScrambleFactor Reader (SF.3)**

**Confidential**

# uTrust TS ScrambleFactor Reader

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## 1.0 Introduction

This document gives the details the 2 antennas used in Identiv's Physical Access Control Reader **SF.3**. This device when used with an access control panel provides controlled access to secured premises.

### 1.1 HF antenna

SF.3 has a 13.56MHz RFID antenna which is an integral part of the DUT and is not replaceable with any other type of antenna. This is a magnetic loop antenna designed on a flex Flex PCB and integrated around the LCD module.

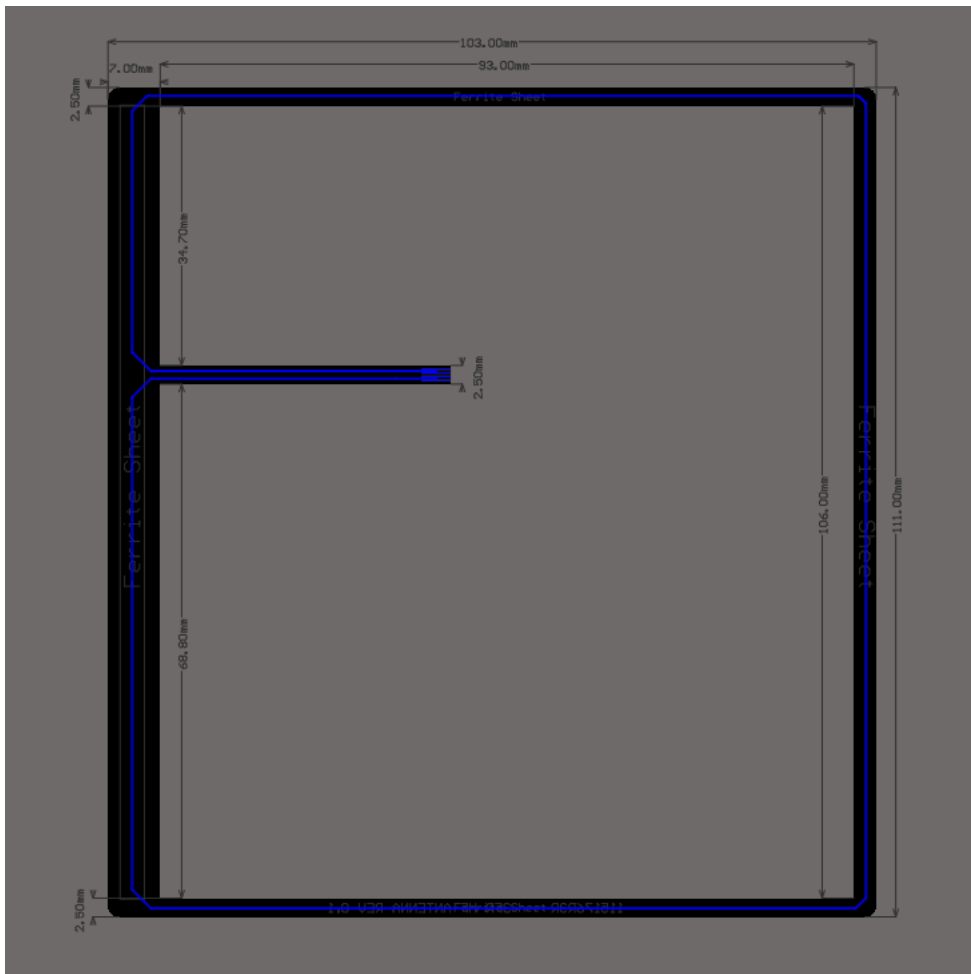
The following are the main parameters of the HF loop antenna.

Inductance – 1.5 uH

Number of turns – 1

Dimensions - 98.5 X 108mm

Antenna magnetic field strength – 3A/m max on top of the antenna.



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## 1.2 LF Antenna coil

SF.3 has a 125KHz LF RFID antenna which is an integral part of the DUT and is not ad replaceable with any other type of Antenna. The LF coil is attached to the front bezel of the 3FR casing and secured by glue.

The main parameters of the LF coil are

Coil Inductance – 750uH +/-5%

Series R – 10Ohm max

Dimensions – 35.8 X 103 mm

