

DATA SHEET



125kHz 2D-Outdoor

HITAG™ Long Range Antenna Module
Hardware

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1 INTRODUCTION

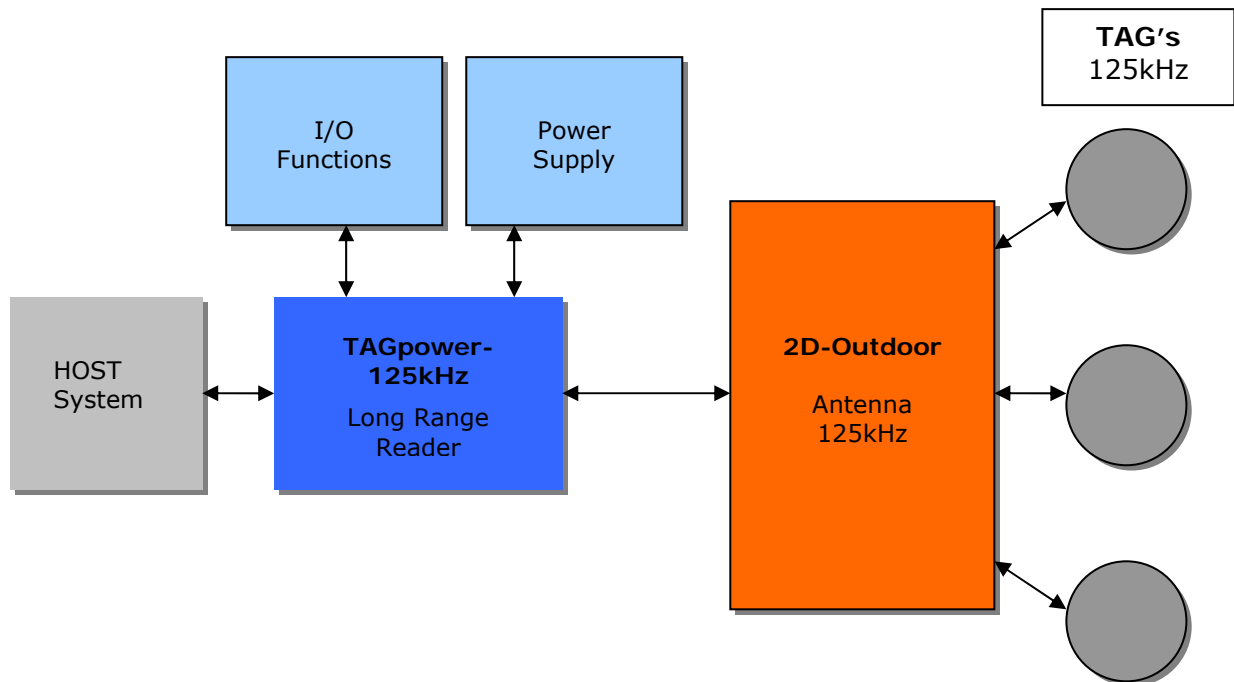
This antenna trained in plastic is suitable by there high performance characteristics is designed for applications with identification from small size Transonder as well.

By combination with the 125kHz-TAGpower Long Range reader module of TAGnology is given an optimal system approach for industrial applications and many more.

Small dimensions as well as a durable, poured housing solution distinguish this antenna and protect these also against corrosion as well as Vandalismus.

2 SYSTEM OVERVIEW

The following drawing shows the 2D-Outdoor antenna as part of a complete Radio Frequency Identification (RFID) System.



3 SPECIFICATION

3.1 Electrical Specification

3.1.1 Metallic Environment, Interfaces and other Readers

The communication range is impaired by metallic environment and electromagnetic interfaces (e.g.: monitors, keyboards). Therefore, you should keep a distance of at least the antenna's diameter to metallic surfaces or loops as well as to electromagnetic interfaces.

If this is not possible, you have to take preventive measures such as using ferrites or shielding for transponder and antenna. In order to be able to operate two systems side by side without negative influence on communication ranges, you must place the antennas at a minimum distance.

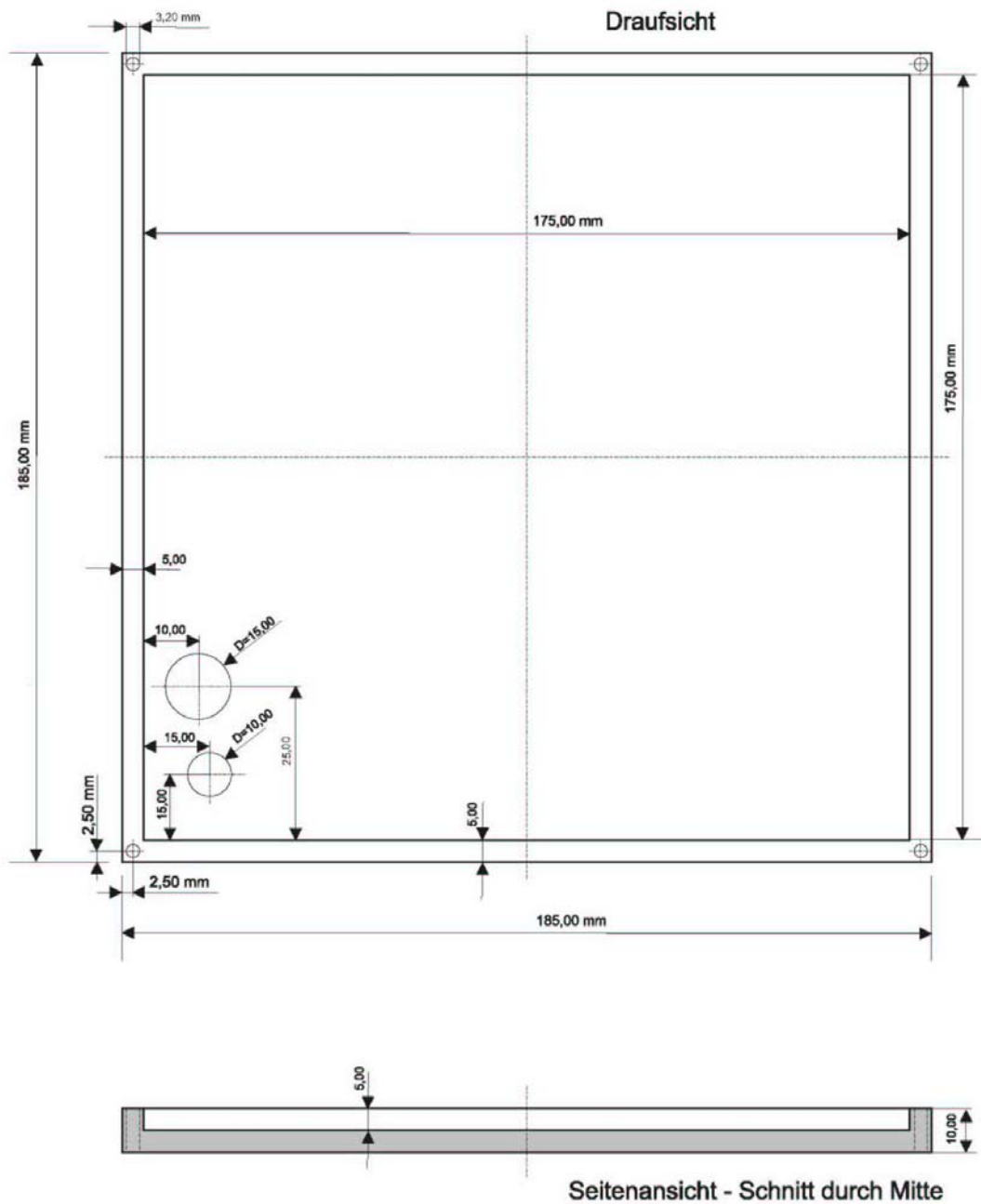
To keep this distances low, magnetic shielding must be realized. This topic is handled in detail in the Design Instruction from the datasheet TAGpower-125kHz Long Range Reader from TAGnology.

3.1.2 Temperature Range

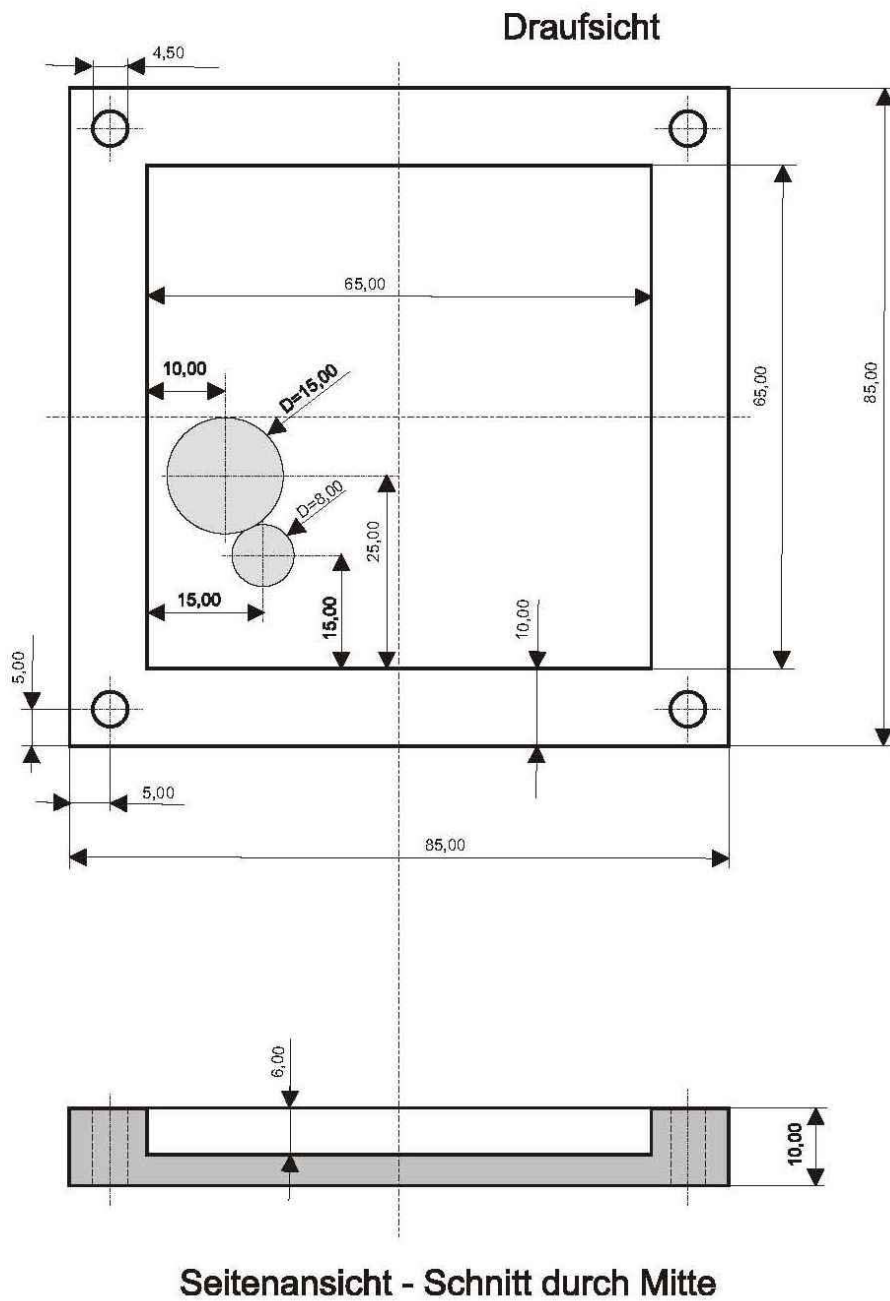
- -25°C to + 70°C (operating)
- -40°C to + 85°C (storage)

3.2 Mechanical Specifications

3.2.1 Mechanical Dimensions Type 1



3.2.2 Mechanical Dimensions Type 2



3.2.3 Connection

- 50 Ω RG174/U Antenna cable, 3m