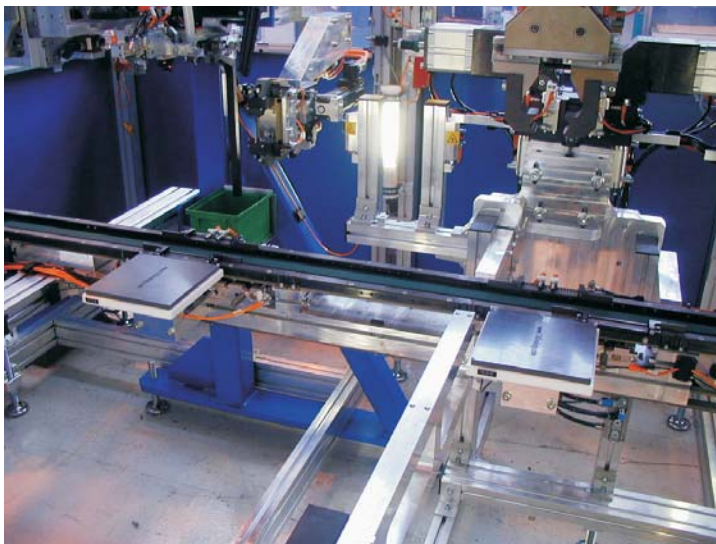




## 2D outdoor 185x185 antenna 125kHz

Long Range RFID antenna



The **2D outdoor 185x185 antenna** is a rugged antenna for diverse applications, especially for evaluation purposes, desktop and mobile applications.

This antenna is very unsensitive against external noise or temperature fluctuation.

### **Order code:**

> 00399

### **Application Examples:**

- > manufacturing
- > automation
- > industry applications
- > logistic applications
- > access control

### **Special Features:**

- > waterproof antenna
- > small dimensions
- > reading distances up to 60cm

### **Technical data:**

Type	outdoor antenna
Dimensions (WxHxD)	185 x 185 x 10mm
Weight	200g
Connector	SMB Connector
RWD	TAGpower 125kHz
Resonance frequency	125kHz or 134.2kHz
Current consumption	typ. 200mA Max. 250mA
Reading distance	up to 60cm depending on TAG antenna size

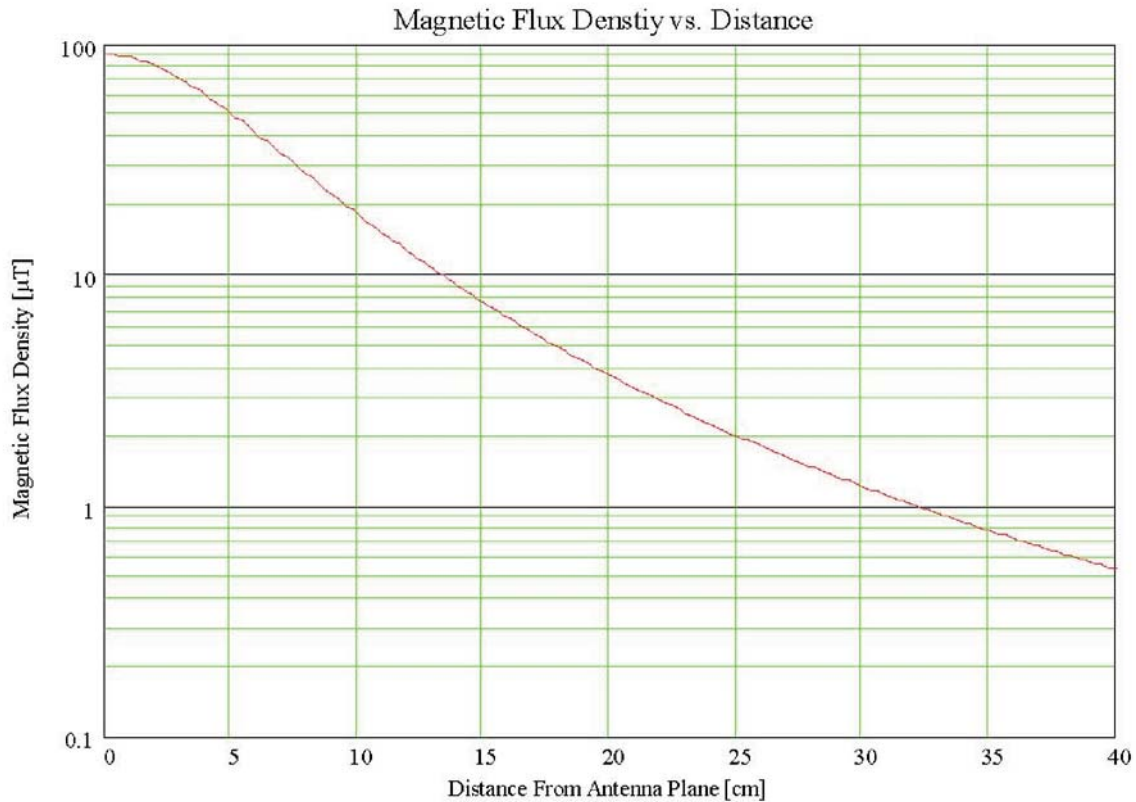


Figure 1: Magnetic Density B on the axis of the antenna vs distance from the antenna plane for an antenna current of 200mA.

The required minimum Flux density for communication ( $B_{min}$ ) is specified for some HITAG transponders. The transmission range of the antenna can be figured out by inserting the value for  $B_{min}$  on the y-Axis and finding the corresponding transmission range on the x-Axis.

Tuning:

The tuning of the antenna is optimized for metal environments.