



## Advanced reader technologies

# i-scan<sup>®</sup> HF

(13,56 MHz)

Long Range  
Antenna for  
ID ISC.MR200-A/-E  
ID ISC.LR2000-A  
ID ISC.LRM2000-A/-B

ID ISC.ANT  
800/600-DA



Long Range Antenna to be used with OBID i-scan<sup>®</sup> HF readers for identification of ISO 15693- , ISO 18000-3 and EPC HF transponders.

### Features:

- Suitable for identification of persons and objects
- Reading range up to 80 cm -- as gate solution even up to 200 cm
- Easy setup due to integrated dynamic antenna tuner (ID ISC.DAT)
- Radio licenses according to ETSI and FCC

## Short description

The OBID i-scan<sup>®</sup> HF Long Range Antenna ID ISC.ANT800/600-DA can be used in combination with the readers ID ISC.MR200-A/-E, ID ISC.LR2000-A and the Reader Module ID ISC.LRM2000-A/-B.

As a single loop antenna with tuning circuitry with a transmitting power of max. 4 W (Europe), a maximum reading range of 80 cm is possible. Gate configurations of 2, 4 or 6 antennas ID ISC.ANT800/600-DA enable even 200 cm, using a parallel transponder orientation !

The antenna consists of the electrical antenna conductor, housing and the tuning circuitry ID ISC.DAT (Tuner) and is factory tuned on a wood base to an impedance of 50 Ohm. After installing in changed ambient conditions, the antenna can be tuned using the corresponding commands.

## Technical data

### Mechanical data

Housing	Plastic ABS
Dimensions (WxHxD)	852x620x40 mm +/-1mm
Color	Black
Weight	approx. 2,5 kg
Protection class	IP 65

### Standard conformity

EMC	EN 300 683
Safety	
- Europe	EN 60950 (on request)
- USA	UL 1950 (on request)

### Environmental conditions

Temperature range	
- Operation	-25°C up to + 55°C
- Storage	-25°C up to + 60°C
Vibration	EN 60068-2-6 10-150 Hz: 0,075mm/1g
Shock	EN 60068-2-27 Acceleration: 30g

### Elektronical data

Max. transmitting power	8 W
Maximum permitted transmitting power	
- EU (EN 300 330)	4 W
- USA (FCC Part 15)	0,25 W
Operating frequency	13,56 MHz
Reading range	80 cm -- as gate solution up to 200 cm*
Antenna connection	SMA plug (50 Ohm)
Antenna connection cable	RG 58, 50 Ohm, 3,6 m

\* The great reading range of up to 200 cm is only possible in Europe due to a maximum permitted transmitting power of 4 W (max. Field strength of 60 db).  
The reference transponder has ISO card size with a sensibility of Hmin=80 mA/m rms.



ID ISC.DAT -- automatic tuning circuitry which is installed in each antenne ID ISC.ANT800/600-DA.

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