



Advanced reader technologies

i-scan[®] 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[®] 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[®] 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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