



Advanced reader technologies

i-scan[®] HF

(13,56 MHz)

Long Range
Antennas for
Long Range Reader
ID ISC.LR2000-A
and Long Range
Reader Module
ID ISC.LRM2000-A/-B

ID ISC.ANT
1400/760-A
1400/760-B
1400/760-C
1400/760-SLA
1400/760-SLB



Gate antennas to be used with
OBID *i-scan*[®] HF Long Range Readers for
identification of ISO 15693-, ISO 18000-3
and EPC HF transponders.

Features:

- Suitable for identification of persons and devices
- Gate width up to 1,60 m
- Easy setup due to integrated dynamic antenna tuner (ID ISC.DAT)
- Remote maintenance due to the reader's Ethernet interface
- Radio licenses according to ETSI and FCC

Short description and technical data

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OBID i-scan® HF Long Range Gate Antennas ID ISC.ANT1400/760 can be used in combination with the Long Range Reader ID ISC.LR2000-A and the Long Range Reader Module ID ISC.LRM2000-A/-B. There are three antenna types available: Type A will be delivered with integrated reader module LRM2000-A and Power splitter, Type C with reader and multiplexer. Type B is the same antenna but without any additional devices. Each antenna type has a Dynamic Antenna Tuner (DAT) on board to ease the tuning procedure with no necessity to use additional tuning devices. Single-, double- or multiple gates with up to eight antennas can be operated. Depending on the antenna configuration, one, two or all three read orientations of the tags and various antenna gate widths are possible. Using antenna types ID ISC.ANT1400/760-SLA /-SLB, the reading ranges will be expanded due to the antennas layout: (these antennas exists of two single loop antennas and two Dynamic Tuning Boards) -- Types A, B and C are "eight antennas" with tuner.

Technical data

Mechanical data		Electrical data	
Housing	UV stabilized ABS	Power supply	7-12 V DC
Dimensions (WxHxD)	760x1700x80 mm +/-5mm	Power consumption	max. 150 mA (DC)
Colors		Maximum transmitting power per antenna	10 W
- Antenna body	Metallic light grey	Maximum admissible transmitting power per gate	
- Upper/lower covers	Slate grey similar RAL7015	- EU (EN 300 330)	10 W
Weight		- USA (FCC Part 15)	8 W
- Type A, C	approx. 35 kg (incl. Reader)	Operating frequency	13.56 MHz
- Type B	approx. 33 kg	Ranges/gate width	
Protection class	IP 54	Type A and B	
Installation		- 1 tag direction	up to 115 cm*
- Fastening points	4	- 3 tag directions	up to 100 cm*
- Recom. anchors	8 mm	Ranges/gate width	
- Recom. min.load capacity of the floor fastener	5.000 N / anchor	Type C and B	
- Max. horizontal load on the top edge of the antenna	250 N	- 1 tag direction	up to 160 cm*
		- 3 tag directions	up to 105 cm*
Standard conformity		Antenna connection	1xSMA plug,(50 Ohm)
RF approval		Antenna connection cable	RG 58, 50 Ohm, 2m
- Europe	EN 300 330	Environmental conditions	
- USA	FCC Part 15	Temperature range	
EMC	EN 301 489	- Operation	-25°C to + 50°C
Safety		- Storage	-25°C to + 70°C
- Europe	EN 60950 (on request)		
- USA	UL 1950 (on request)		

* Min. Field strength 80 mA/m with antenna -SLA/-SLB, using tags 46x75 mm

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