



Provisional Data Sheet

i-scan[®]



Long-range
antennas for
Long-range reader
ID ISC.LR200-x
and Long-range
reader module
ID ISC.LRM200-x

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

Gate antennas to be used with
OBID *i-scan*[®] Long-range readers for
identification of ISO 15693- and EPC tags..

Features:

- Suitable for personal- and industrial applications
- Gate installation with 2 or 3 antennas
- Variable gate width of up to 2 m (2 x 100 cm)
- Radio admission acc. R&TTE and FCC

Short description and technical data

Short description

OBID i-scan[®] HF Long range antennas can be used in combination with the Long range reader ID ISC.LR200-x and the Long range reader module ID ISC.LRM200-x. Together, two antennas ID ISC.ANT1400/760 form a gate, which is used for identification of persons or goods. The maximum gate width (reading range) is 100 cm, as far as there are no orientation limits for the tag (i.e. All three directions are possible). Configuring a triple gate, a maximum gate width of 2 x 100 cm will be the result. In case that only one of the three tag directions is used, even double gates with a gate width of up to 140 cm are possible.

The mentioned reading ranges are valid for using antenna type ID ISC.ANT1400/760-A. This antenna exists of one antenna frame and one Dynamic Tuning Board, reading tags in random orientation.

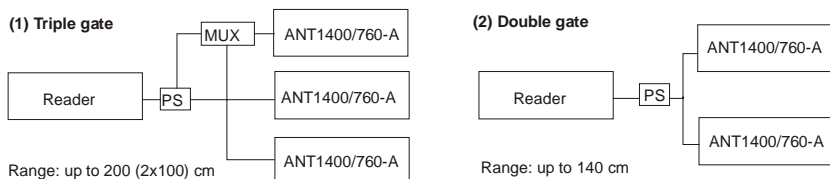
Using antenna type ID ISC.ANT1400/760-SLA, the reading ranges will be expanded due to the antennas layout: this antenna exists of two single loop antennas and two Dynamic Tuning Boards, reading tags in two dimensions with longer distance.

Technical data

Mechanical data	
Housing	ABS plastic, UV-stabilised
Dimensions (WxHxD)	approx. 760x1400x88 mm
Weight	approx. 20 kg
Protection class	IP 54
Installation	
- Fastening points	2
- Recom. Bolt size	8-10 mm
- Recom. Min. Load carrying ability for the ground fastening device	5.000 N per peg
- Max. Horizontal load at the upper edge of the antenna	250 N
Environmental conditions	
Temperature range	
- Operation	-25°C to + 50°C
- Storage	-25°C to +70°C

Electrical data	
Maximum transmitting power per antenna	10,0 W
Maximum admissible transmitting power	
- EU (EN 300 330)	10,0 W
- USA (FCC Part 15)	4,0 W
Operating frequency	13.56 Mhz
Ranges/gate width	
- 1 tag direction	140 cm*
- 3 tag directions	100 cm **
Antenna connection	1xSMA plug,(50 Ohm)
Antenna connection cable	RG 58, 50 Ohm
* Tag 46 x 75 mm, 8 W transmitting power, tag alignment parallel to the antenna in case of horizontal antenna movement	
** same as *, tag alignment in all three dimensions in case of horizontal antenna movement.	

Possible gate flowsheets



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