



advanced reader technologies

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
1400/700-A
1400/700-B



Gate antennas to be used with
OBID[®] *i-scan* Long-range readers for
the identification of Smart Labels.

Characteristic features:

- Suitable for personal- and industrial applications
- Gate installation with 2 or 3 antennas
- Available in 2 colour combinations (light grey/dark grey resp. light grey/blue)
- Variable gate width of up to 1,80 m (2x90 cm)
- Radio admission acc. R&TTE and FCC

Short description and technical information

Short description

OBID[®] *i-scan* 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, the two antennas ID ISC.ANT1400/700-A (base antenna) and ID ISC.ANT1400/700-B (complementary antenna) form a gate, which is used for the identification of persons or goods. The maximum gate width (reading range) is 100 cm, as far as there are no orientation limits for the Smart Labels (i.e. all three label directions are possible). If a complementary antenna is connected to the reader in order to configure a triple gate, a maximum gate width of 2x90 cm will be the result. In case that only one of the three label directions is used, even double gates with a gate width of up to 130 cm are possible. In this case, you will have to combine two base antennas to form a gate and, depending on the forward direction of the current in the antennas, the label can be aligned either parallel or crosswise to the antennas.

Technical data

Mechanical data

Housing	ABS plastic, UV-stabilised
Dimensions (WxHxD)	750 x 1663 x 88 mm 776 x 120 mm (foot)
Weight (-A/-B)	22 kg
Protection class	IP 54
Colours	
- Antenna body	light grey
- Covering caps	dark grey RAL 7015
Installation	
- Fastening points	2
- Recom. bolt size	8 - 10 mm (diameter)
- Recom. min. load carrying ability of the ground fastening device	5.000 N per peg
- Max. horizontal load at the upper edge of the antenna	250 N

Environmental conditions

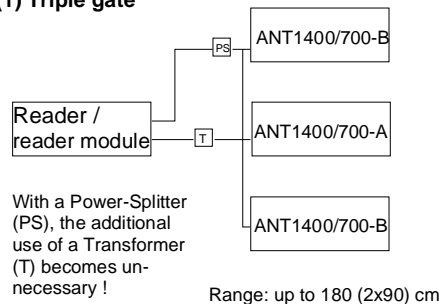
Temperature range	
- Operation	- 25°C to + 50°C
- Storage	- 25°C to + 70°C

Electrical data

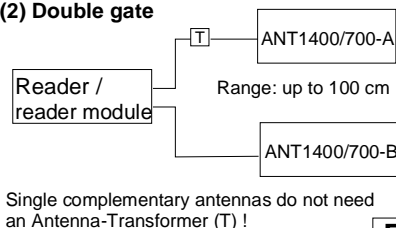
Maximum transmitting power per antenna	8,0 W
Maximum admissible transmitting power	
- EU (EN 300 330)	4,0 W
- USA (FCC Part 15)	1,5 W
Operating frequency	13,56 MHz
Ranges/gate width	
- 1 label direction	130 cm*
- 3 label directions	90 cm**
Antenna connection	1 x SMA plug (50 Ohm)
Antenna connection cable	RG 58, 50 Ohm, 220 cm
* 2 base antennas, same forward direction of current, label 46 x 75 mm, 4 W transmitting power, label alignment parallel to the antenna in case of horizontal antenna movement	
** 1 base- and 1 complementary antenna, label 46 x 75 mm, 4 W transmitting power, label alignment in all three dimensions in case of horizontal antenna movement.	

Possible gate flowsheets

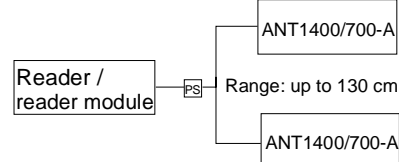
(1) Triple gate



(2) Double gate



(3) Double gate with two base antennas



FEIG ELECTRONIC GmbH
Lange Straße 4, D-35781 Weilburg
Tel.: +49 (0) 6471 / 3109-0, Fax: -99
Internet: <http://www.feig.de>
e-mail: OBID@feig.de