

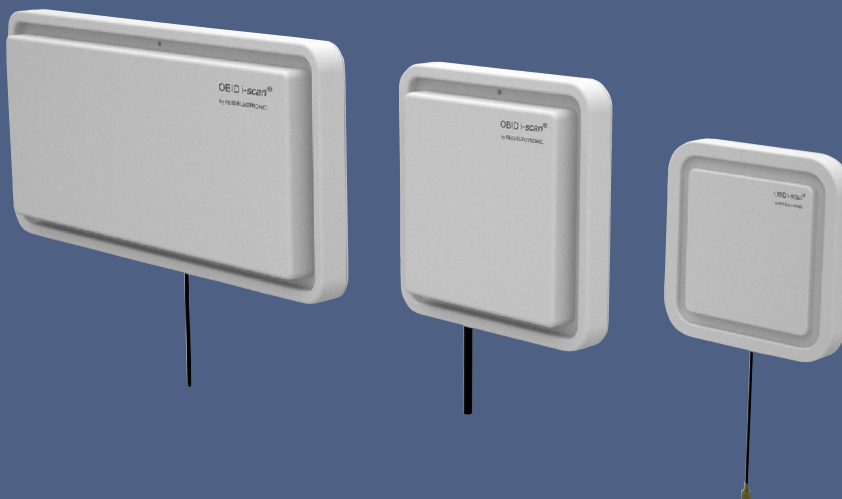
Annex no. 12

Antenna description





UHF RFID Antennas ID ISC.ANT.U170/170 / U270/270 / U600/270



SPECIAL FEATURES

- Circular Polarization for optimized reading performance
- Available for EU and FCC Frequencies
- IP 65 for outdoor applications
- Unique design
- Usable with all available UHF readers
- ID ISC.ANT.U600/270:
30° Beam width, particularly suitable for Gate Applications
- ID ISC.ANT.U170/170:
very small and light shape



DESCRIPTION

The antennas of the OBID i-scan[®] UHF series are specially designed for use in the different UHF frequency bands. A separate version is available for the European frequency band in the range from 865 MHz to 868 MHz as well as for the FCC frequency band from 902 MHz to 928 MHz

The circular polarization of the antenna allows an identification of transponders in different orientation. E.g. an intelligent alignment of the antennas within a gate allows a 3-dimensional identification of transponders.

With the combination of exclusive design and high protection class IP65 the antenna can be used for indoor applications as well as outdoor applications.

Each Antenna convinces with its individual properties. For nearly each kind of application a suitable antenna is available.

The development of customized antennas is possible on demand.

ORDER DESCRIPTION

Antennas with an operating frequency from 865 MHz to 868 MHz:

- ID ISC.ANT.U170/170-EU
- ID ISC.ANT.U270/270-EU
- ID ISC.ANT.U600/270-EU

Antennas with an operating frequency from 902 MHz to 928 MHz:

- ID ISC.ANT.U170/170-FCC
- ID ISC.ANT.U270/270-FCC
- ID ISC.ANT.U600/270-FCC

AVAILABLE ACCESSORIES

Antenna cables:

- ID ISC.ANT.C2-A
- ID ISC.ANT.C6-A

Mounting sets:

- ID ISC.ANT.U170/170-MS
- ID ISC.ANT.U270/270-MS
- ID ISC.ANT.U600/270-MS

	ID ISC.ANT.U170/170	ID ISC.ANT.U270/270	ID ISC.ANT.U600/270
Dimensions	170 x 170 x 25 mm ³	270 x 270 x 57 mm ³	590 x 270 x 57 mm ³
Housing	ASA-ABS	ASA-ABS	ASA-ABS
Colour	White	White	White
Weight	270 g	1.210 g	2.200 g
Protection class	IP65	IP65	IP65
Gain	approx. 4 dBic	approx. 9 dBic	approx. 11 dBic
3 dB beam width	85° x 85°	65° x 65°	30° x 65°
Polarization	circular	circular	circular
Antenna connection	SMA socket (50 Ohm)	SMA socket (50 Ohm)	SMA socket (50 Ohm)
Temperature range			
Operation	- 25 °C up to 55 °C	- 25 °C up to 55 °C	- 25 °C up to 55 °C
Storage	- 25 °C up to 80 °C	- 25 °C up to 80 °C	- 25 °C up to 80 °C

Antennas are compatible with any current UHF reader system.