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

SPECIAL FEATURES

- Circular Polarization for optimized reading performance
- 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 UHF antennas from FEIG ELECTRONIC are specially designed for use in the different UHF frequency bands. Separate version are 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 (FCC not for ID ISC.ANT170/170).

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.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

<table>
<thead>
<tr>
<th>ID ISC.ANT.U170/170</th>
<th>ID ISC.ANT.U270/270</th>
<th>ID ISC.ANT.U600/270</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions *</td>
<td>170 x 170 x 26.5 mm³</td>
<td>270 x 270 x 57 mm³</td>
</tr>
<tr>
<td>Housing</td>
<td>ASA-ABS</td>
<td>ASA-ABS</td>
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<tr>
<td>Colour</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Weight</td>
<td>270 g</td>
<td>1.210 g</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td>Gain</td>
<td>approx. 4 dBi</td>
<td>approx. 9 dBi</td>
</tr>
<tr>
<td>3 dB beam width</td>
<td>85° x 85°</td>
<td>65° x 65°</td>
</tr>
<tr>
<td>Polarization</td>
<td>circular</td>
<td>circular</td>
</tr>
<tr>
<td>Antenna connection</td>
<td>SMA socket (50 Ohm)</td>
<td>SMA socket (50 Ohm)</td>
</tr>
<tr>
<td>Temperature range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation</td>
<td>- 25 °C up to 55 °C</td>
<td>- 25 °C up to 55 °C</td>
</tr>
<tr>
<td>Storage</td>
<td>- 25 °C up to 80 °C</td>
<td>- 25 °C up to 80 °C</td>
</tr>
</tbody>
</table>

Antennas are compatible with any current UHF reader system.

* Tolerances ± 0.5 mm

FEIG ELECTRONIC reserves the right to change specification without notice at any time.