

UHF RFID Wide Range Antenna

865-870

Polarization

C

Half-Power Beam Width

70°

KATHREIN

Antennen · Electronic

- preliminary -

- Features:**
- Compact construction
 - Low axial ratio for optimum performance
 - Reading range*): up to 10 m
 - Optimised for portal applications
 - Suitable for use in industrial environments
 - High IP 65 protection class
 - Suitable for outdoor use
- *) depending upon tag properties, environment and requirements



Type No.	00518
Frequency range	865-870 MHz
Polarization	circular
Antenna gain	8.5 dBic @ 866 MHz
Axial ratio	typ. 1 dB
VSWR	< 1.2:1
Impedance	50 Ω
Front-to-back ratio	> 18 dB
Max. radiated power (ETSI EN 302 208)	2 W ERP
Far field half-power beam width	69°
Connection	TNC socket
Protection class	IP 65
Weight	~1.7 kg
Dimensions (W x H x D)	270 x 270 x 45 mm
Packing dimensions	approx. 300 x 300 x 150 mm

Material:

Antenna cover: Tough, weather-resistant polymer blend
Colour: RAL7045

Chassis: Aluminium

Seals: Thermoplastic elastomer

Installation: Four M5 drill holes 100 x 100 mm

Temperature range:

Storage temperature: -40° C - +85° C

Ambient temperature: -20° C - +55° C



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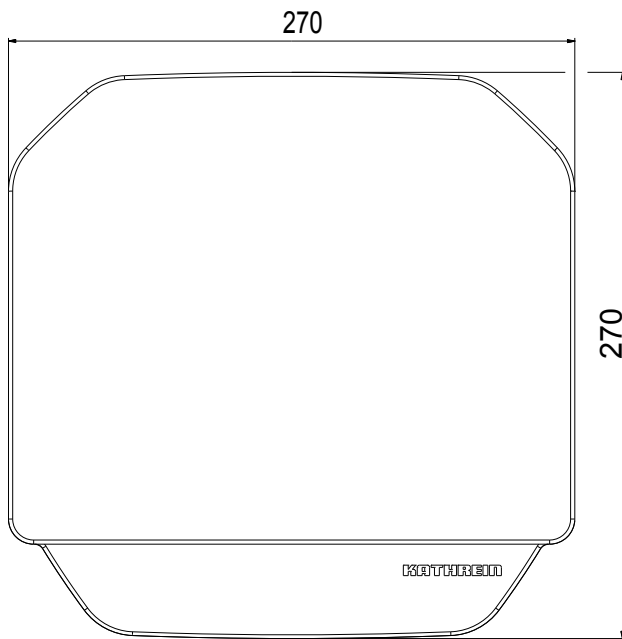
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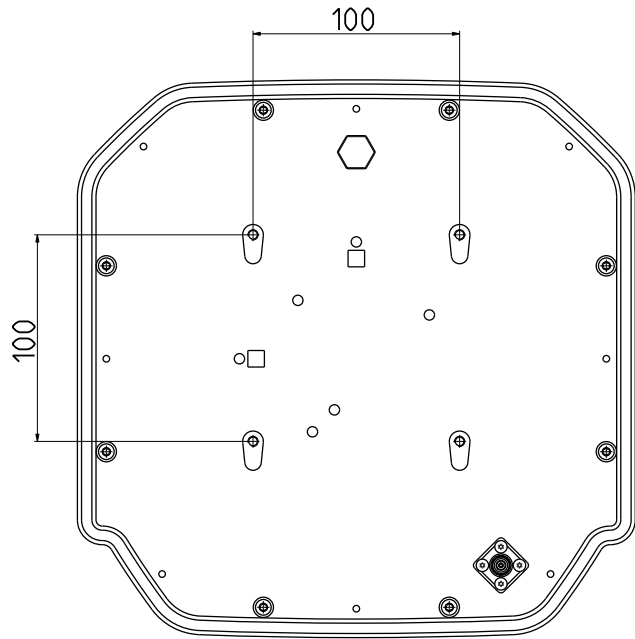
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Mechanical view and dimensions (in mm):



Front view



Rear view

Description:

For classic far field applications with large reading distances, the Wide Range Antennas (WIRA) are the optimal choice: they are characterised by a very low axial ratio for circular Polarization, whereby the dependence of reading results upon the position or alignment of tags is significantly reduced. For this reason they are also the ideal solution for portal applications in addition to many other application possibilities.

Example Applications

- Gate applications for goods registration
- Logistics
- Vehicle registration
- Bulk and single tag applications