KATHREIN

Features

- controlled via Kathrein RFID antenna interface ©KRAI
- dynamic and static polarisation switching (circular LHCP/circular RHCP/ linear horizontal/linear vertical)
- low axial ratio for optimum performance
- 4 LEDs for visualisation, freely programmable (high-end LED)
- signal and controlling via standard antenna coaxial cable
- read range*: up to 12 m (* depending on tag properties, environment and requirements)
- optimised for portal applications, suitable for use in industrial environments
- high degree of protection, IP67 suitable for outdoor use

Quality made in Germany

For classic far-field applications with large reading distances, the Wide Range Antennas (WRA) are the optimal choice: they are characterised by a very low axial ratio for circular polarisation, 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.

General Specifications

Order No.		52010335	52010336
Type		WRA 7070 ©KRAI Antenna Unit	WRA 7070 ©KRAI Antenna Unit
Frequency range	[MHz]	865–868	902–928
©KRAI		✓	
LED visualisation		high-end LED (freely programmable)	
Polarisation, circular		LHCP/RHCP*	
Antenna gain	[dBiC]	typ. 6.5	
Axial ratio	[dB]	typ. 2	
Polarisation, linear		horizontal/vertical	
Antenna gain	[dBiC]	7.0	7.5
VSWR		typ. 1.4:1	typ. 1.8:1
Front-to-back ratio	[dB]	> 18	
Impedance	[Ohm]	50	
Max. input power	[dBm]		+30 (at antenna port) (FCC 15.247)
Max. radiated power	[dBm]	+33 ERP (ETSI EN 302 208)	+36 EIRP (FCC 15.247)
Far-field half-power beam width	[°]	65	
Connection		TNC female	
Weight	[kg]	1.7	
Degree of protection		IP67	
Operating temperature range	[°C]	–20 to +55	
Storage temperature range	[°C]	–40 to +85	
Dimensions (L x W x H)	[mm]	300 x 300 x 49	
Package size (L x W x H)	[mm]	approx. 350 x 350 x 80	
Material			
Antenna cover		tough, weather-resistant polymer blend, colour: RAL7035	
Chassis		aluminium	
Patch plate		brass, tin-plated	
Seals		thermoplastic elastomer	

* left-/right-hand circular polarisation

Key Applications

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

Mounting

NOTICE

Risk of damage to property!

► Make sure that the screw is only screwed in max. 10 mm deep into the housing (M_{max} = 5 Nm).

- Four M6 drill holes at intervals of 100 x 100 mm

Accessories (Optional)

Note

It is only possible to operate the antenna in conjunction with a ©KRAI reader.

Dimensions