

## > Features

- Compact design
- Low axial ration for optimum performance
- 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

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 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.



## > General Specifications

Order No.		52010333	52010334
Type		WRA 7070 Antenna Unit	WRA 7070 Antenna Unit
Frequency range	[MHz]	865–868	902–928 (915–928 for Peru)
©KRAI			–
LED visualisation			–
Polarisation, circular			RHCP*
Antenna gain	[dBiC]	typ. 8.5 (at 866 MHz)	typ. 8.5 (at 915 MHz)
Axial ratio	[dB]		typ. 1
VSWR			typ. 1.2:1
Front-to-back ratio	[dB]		> 18
Impedance	[Ohm]		50
Max. input power	[dBm]		+30 (at antenna port) (FCC15.247)
Max. radiated power	[dBm]	+33 e.r.p. (ETSI EN 302 208)	+36 EIRP (FCC15.247)
Far-field half-power beam width	[°]		65
Connection			TNC female
Weight	[kg]		1.7
Degree of protection			IP67
Operating temperature range	[°C]		–40 to +70
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, powder coated	
	Patch plate	brass, tin-plated	
	Seals	thermoplastic elastomer	

\* 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 ( $M_{max} = 5 \text{ Nm}$ ).

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

## > Accessories (Optional)

You can find all accessories at <http://www.kathrein-solutions.com/products/hardware/accessories>.

## > Dimensions

