

KATHREIN

WRA 3070 Antenna Unit, 865-868 MHz, 11.5 dBic, RHCP, 610 x 320 mm

For applications in the read range up to 20m, the Kathrein WRA 3070 antenna is available for such application, especially if a focused beam is needed.

The WRA 3070 antenna are characterised by a high antenna gain and at the same time very low axial ratio for circular polarization, for optimum reading of transponders in all orientations, even at great distances. For applications in which the reading range must be selectively detected despite a long range, the antennas are focused in the horizontal direction to an aperture angle of 30°. This makes the WRA 3070 the ideal antenna for gate applications and lane-selective detection for vehicles.



For easier installation, the antenna already has two brackets integrated to mount the antenna directly to gantries or poles with hose clamps.

Features of the Kathrein Wide Range RAIN RFID Antenna WRA-3070

- Ideal for fare-field applications up to 20m
- Very homogenous reading field
- Optimal axial ratio
- Selective 30° beam focused in horizontal plane
- Compact design for ruggedized environmental applications, but also, for shop floor use cases
- Mounting brackets for pole or gantry mount included
- Prepared for 3D mount kit (100 x 100mm)
- High IP67 degree of protection

Key Applications

- Manufacturing and Automotive
- Logistics
- Intelligent Transportation Systems
- Service and maintenance



Technical Description

Functionality & Operation

Reading/writing distance	20m
Connectors	TNC Female
Frequency	UHF: 865 - 868 MHz (EU)
Polarization	LHCP

Electrical

Gain	12dBi
Beam width	65° vertical
Beam width	30° horizontal
Axial ratio	1dB
Front to back ratio	20dB
Return loss (VSWR)	1.3:1
Nominal impedance	50Ohm

Mechanical

Dimensions	Width: 320mm, Height: 77mm Length: 610mm
Weight	4.5kg
Color	light grey
Body housing	aluminium, metal, weather-resistant polymer blend

Environment

Operating temperature	-40 to 70°C
Storage temperature	-40 to 85°C
Ingress protection	IP67

Others

Certifications	CE, REACH, RoHS
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