

Kathrein offers the most comprehensive UHF RFID antenna portfolio. For applications in the read range up to 5m, the WRA 6060 antenna is available for such application.

The characteristic of the selective reception zone known from the SMSH antenna family is transferred to an IP67-protected antenna. The antenna thus offers an extremely homogeneous reading range, which is made possible by the high front-to-back ratio. It is therefore suitable for static detection of multiple transponders. Due to its slim design, the antenna can be integrated into various applications.



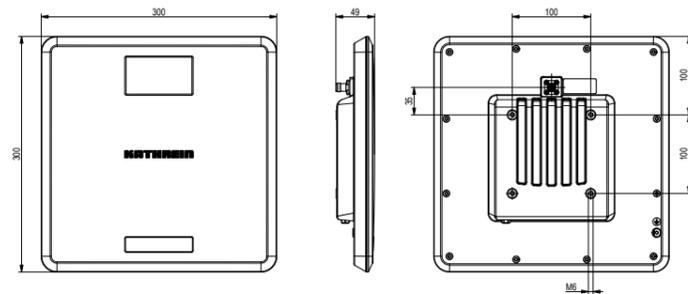
> Features

- Kathrein SMSH smart shelf antenna in an outdoor approved housing
- Strong separation of read/no-read zone
- Very homogenous reading field
- Extremely high front-to-back ratio
- Ideal for near-field/far-field applications up to 500 cm
- Thin and robust design
- High IP67 degree of protection
- Suitable for outdoor use
- Available for Europe, US and RoW

> Key Applications

- Manufacturing and Automotive
 - for bulk collection of containers
 - for selective gates and read tunnels
- Logistics
 - for the registration of containers
 - separation of goods and containers

> Dimensions [mm]



> Note

Risk of material damage!

- ▶ Please ensure that the underlying surface is clean, load-bearing and free of conductors.
- ▶ To mount the antenna, please use the four M6 screws to fix mounting kit.
- ▶ The max. tightening torque is 1.4 Nm.

> General Specifications

Type		ETSI Version WRA 6060	FCC Version WRA 6060
Order number		52010423	52010424
RFID			
Frequency range	[MHz]	865–868	902–928
Impedance antenna port	[Ohm]	50	
Antenna gain	[dBiC]	5.5 @866 MHz	5.5 @915 MHz
Far field half-power beam width	[°]	60 / 60	
Polarization		Circular / RHCP*	
Axial ratio	[dB]	typ. 1	
Front-to-back ratio	[dB]	>19	
Max. input power (at antenna port)	[dBm]		+30 (FCC 15.247)
Max. radiated power	[dBm]	+33 ERP (ETSI EN 302 208)	+32.5 ERP (FCC 15.247)
Max read range	[cm]	500	
VSWR		typ. 1.2:1	
Mechanic properties			
Connection		TNC female	
Weight	[kg]	1.7	
Degree of protection	[W]	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 48	
Packing size (L x W x H)	[mm]	350 x 350 x 80	
Antenna cover		weather-resistant polymer blend, colour: RAL7035	
Chassis		aluminium, powder coated	
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Antenna cover		weather-resistant polymer blend, colour: RAL7035	
Chassis		aluminium, powder coated	

*) right-handed circular polarisation

> Mounting options

The WRA 6060 antenna offers two mounting options. It can be mounted with the wall mount kit 52010351 or directly into a shelf with the shelf mount kit 52010479.

