

Kathrein offers the most comprehensive passive UHF RFID antenna portfolio. The Wide Range 25°35° PRO is characterized by a high antenna gain, for ideal reading of vehicle transponders like windshield labels and headlamp tags in Intelligent Transportation Systems (ITS). The linear polarization of the antenna is optimal for the reception also of weaker transponder. Thanks to the 25° aperture angle of the antenna in horizontal direction a selective detection in one lane is given. This makes the Wide Range 25°35° PRO antenna the perfect solution for lane-selective detection of high-speed vehicles in Multi Lane Free Flow (MLFF) applications.



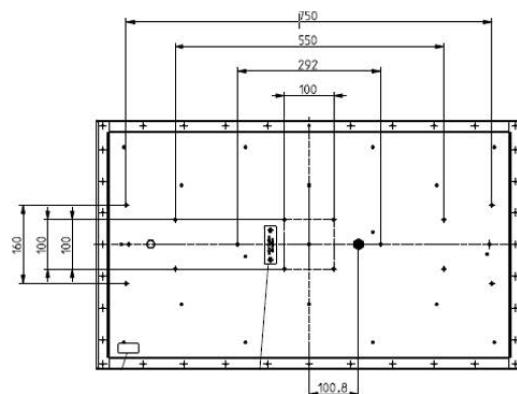
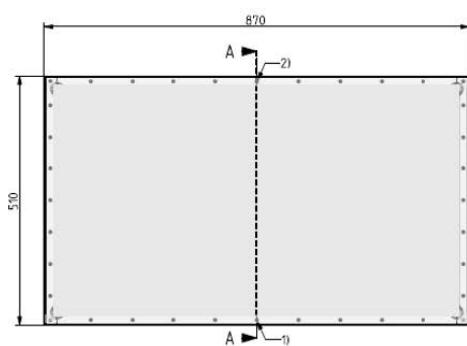
## > Features

- 25° focused read zone for lane-selective detection of vehicles
- Suitable for windshield label and headlamp tags
- Optimum performance characteristics due to high gain and linear polarisation
- Ideal solution for ITS applications, such as toll systems, road access control or MLFF
- Compact design for ruggedized environmental applications
- Read range: up to 30 m (depending on tag properties, environment and requirements)
- High degree of protection, IP67 suitable for outdoor use

## > Key Applications

- Tolling systems
- Road access control
- Multi Lane Free Flow
- Smart city applications

## > Dimensions [mm]



## > General Specifications

Type	ETSI Version		FCC Version
	Wide Range 25°35° PRO antenna		Wide Range 25°35° PRO antenna
Order number	52010489		52010490
<b>RFID</b>			
Frequency range	[MHz]	865–868	902–928
Impedance antenna port	[Ohm]		50
Antenna gain	[dBi]	typ. 15.0	typ. 15.0
Half-power beam width	[°]	25 / 35	
Polarization		linear	
Alignment polarization		horizontal	
Front-to-back ratio	[dB]	> 25	
Max. input power	[dBm] [W]	+38.5 7	
Max read range	[m]	30	
VSWR		typ. 1.3:1	
<b>Mechanic properties</b>			
Connection		N female	
Weight	[kg]	5.4	
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]	510 x 870 x 34	
Packing size (L x W x H)	[mm]	540 x 900 x 75	
Antenna cover		thermoplastic radome, UV resistant	
Chassis		aluminium	

## > Accessories

- Antenna cable R-AC-15-N-TNCR; 15m low loss 400 antenna cable 52010250

For more information about accessories, go to [www.kathrein-solutions.com/products/rfid/rfid-accessories](http://www.kathrein-solutions.com/products/rfid/rfid-accessories)