KATHREIN

Features

- Compact design and small dimensions
- Typical read range*: up to 2 m (* depending on tag properties, environment and requirements)
- Various transponder types possible to use
- Integration possible in applications where space is limited
- Use in transition range between near field and far field application
- Suitable for use in industrial environments, suitable for bulk and single tag applications
- High IP67 degree of protection, suitable for outdoor use

Quality made in Germany

RAIN RFID

General specifications

Order No.		52010082	52010083
Type		MIRA-100-circular-ETSI	MIRA-100-circular-FCC
Frequency range	[MHz]	865-868	902-928
©KRAI		-	
Polarization		circular	circular
Antenna gain	[dBiC	2.5 (at 866 MHz)	2.5 (at 915 MHz)
Axial ratio	[dB]	typ. 1.5	typ. 2.5
VSWR		typ. 1.3:1	typ. 1.5:1
Front-to-back ratio	[dB]	typ. 10	> 10
Impedance antennaport	[Ohm]	50	
Max. input power	[dBm]	-	+30 (at antenna port) (FCC15.247)
Max. radiated power	[dBm]	+30 e.r.p. (ETSI EN 302 208)	-
Far field half-power beam width (if mounted like picture)	[°]	100	
Connection		TNC female	
Weight	[kg]	0.32	
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]	156 x 143.8 x 36	
Packing size (L x W x H)	[mm]	approx. 230 x 160 x 81	
Material			
Antenna cover		tough, weather-resistant polymer blend, colour: RAL7045	

Remarks

Mounting options

- Four through-holes Ø 4.2 mm for M4 screws

Accessories optional

- All accessories can be found at: https://http://www.kathrein-solutions.com/products/hardware/accessories

936B116A I Subject to changes
date of creation: 28.08.2011

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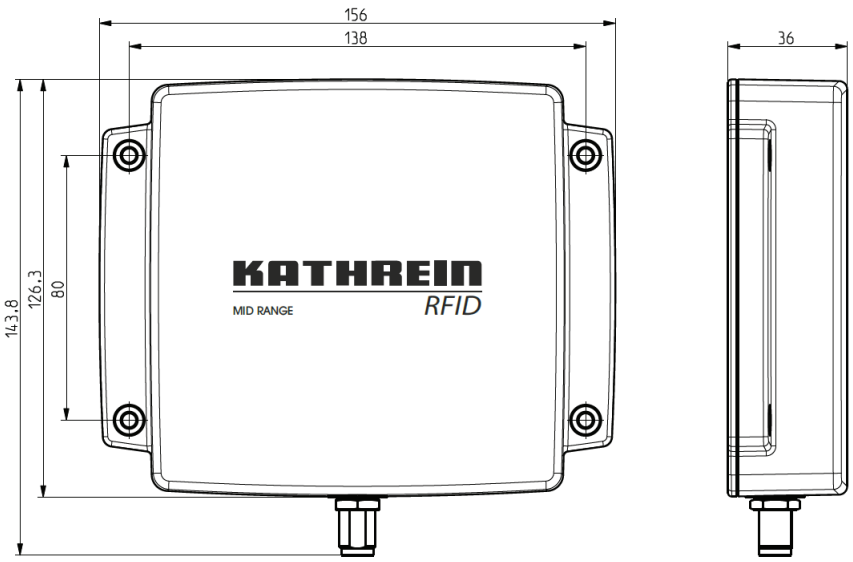
> Dimensions [mm]



Description

The mid-range antenna (MIRA) was developed for applications in range between the near and far field. The focus of the compact design was for integration in space-critical applications. Reading distances of up to 5 m are still possible with dimensions of 143.8 x 156 mm. In this case, however, the reading range is very wide.

In most cases the MIRA is used for reading distances up to 2 m, for which it features sufficient selectivity. Therefore, this antenna design is especially suitable for applications in the so-called transition area with different tag types.

Key Application

Logistics applications: installing to corridor conveyor vehicles

Materials handling applications

Gate applications for goods registration

Bulk and single tag applications

Access systems (e.g. ski lifts, control systems for tickets)

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