Mid Range RFID UHF Antenna
MIRA-100-circular-ETSI
Order-No. 52010082

KATHREIN RFID

Technical features:

- compact design
- small dimensions
- typical read range *: up to 2 m
- integration possible in applications where space is limited
- various transponder types possible to use
- suitable for use in industrial environments
- use in transition range between near field and far field applications
- suitable for bulk and single tag applications
- high IP 67 degree of protection; suitable for outdoor use

* depending on tag properties, environment and requirements

Order-No.		52010082
Frequency range	MHz	865-868
Polarization		circular
Antenna gain	dBiC	2.5 (at 866 MHz)
Axial ratio	dB	typ. 1.5
VSWR		typ. 1.3:1
Impedance	Ω	50
Front-to-back ratio	dB	typ. 10
max. radiated power (ETSI EN 302 208)	dBm	+30 ERP
Far field half-power beam width	°	100
Connection		TNC female
Operating temperature range	°C	-20 to +55
Storage temperature range	°C	-40 to +85
Degree of protection		IP 67
Weight	kg	0.32
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

Mounting options:

- four through-holes Ø 4.2 mm for M4 screws

Accessories (optional):

- wall/mast bracket (Order-No. 52010128), mounting kit for outdoor use
- wall bracket (Order-No. 52010261), mounting kit for indoor use only

Made in Germany

RoHS COMPLIANT

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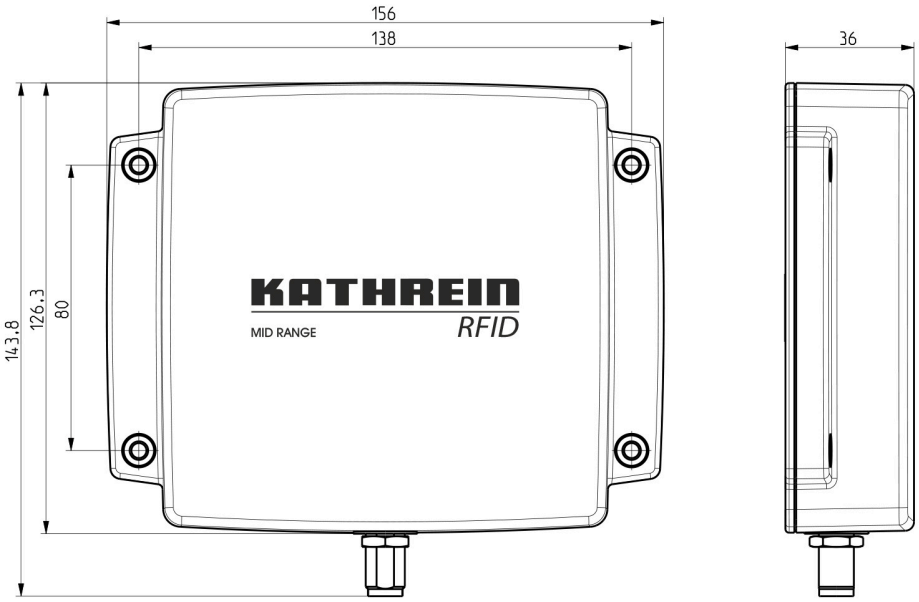
Dimensions in [mm]:



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.

Example applications:

- 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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