

Short Mid Range RFID UHF Antenna

S-MIRA-100-circular-FCC

Order-No. 52010172

Technical features:

- compact design
 - small dimensions
 - typical read range *: up to 1 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. | | 52010172 |
|---------------------------------|------|--------------------------------------|
| Frequency range | MHz | 865-928 |
| Polarization | | circular |
| Antenna gain | dBiC | -12 (at 866 MHz) -10 (at 915 MHz) |
| Axial ratio | dB | typ. 2 |
| VSWR | | < 1.4:1 |
| Impedance | Ω | 50 |
| Front-to-back ratio | dB | > 8 |
| max. input power | dBm | +30 (at antenna port) |
| 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



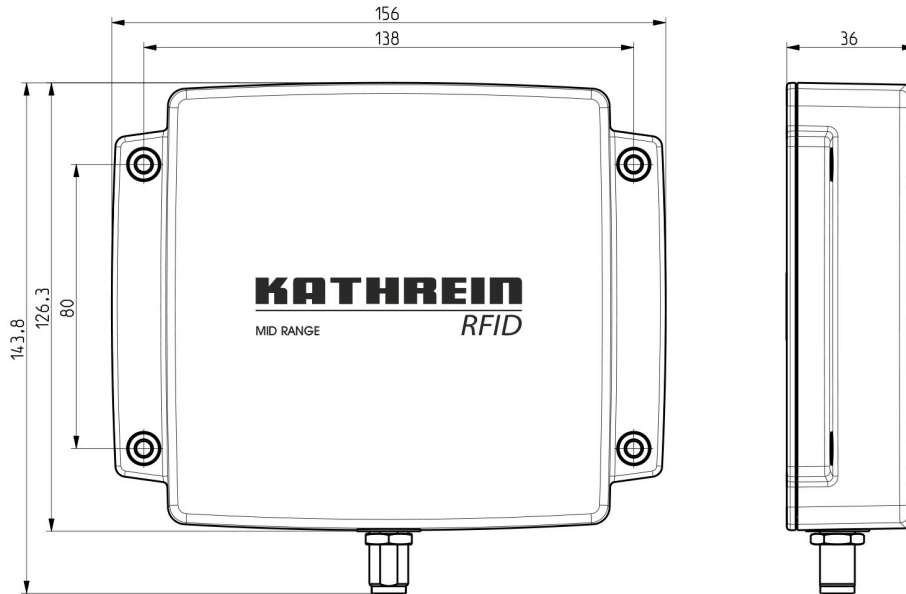
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KATHREIN
RFID

Dimensions in [mm]:



Description:

The short mid range antenna (S-MIRA) was developed for applications in ranges between the near and far field. An especially compact design for integration in installation space-critical applications was focused upon. Reading distances of up to 1m are still possible though with dimensions of 143,8 x 156 mm.

Compared to the mid range antenna (521010082), the S-MIRA has a higher selectivity. The reading distance, in the range up to 1m, can be set very accurately by the output level of the reader. For this, the S-MIRA is ideal to use in the range between the low range antennas (> 10 cm) and the mid range antenna (< 100 cm).

Example applications:

- logistics applications: installing to corridor conveyor vehicles
- materials handling applications
- Bulk and single tag applications
- access systems (e.g. ski lifts, control systems for tickets)



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