

# HF frame Antenna

The HF frame antenna is designed for the use of the RFID readers HFM. Due to its robust metal design, the antenna is also suitable for applications in harsh (industrial) environments. Due to its halar coating it is very robust and shows only a minimal particle emission. To offer the optimal solution for every application, the RFID frame antenna is available in different sizes and with various cable lengths. (Not listed sizes on request)

## Technology

RFID Antennas Frequency: 13.56 MHz

## Features

- » Convenient plug-in connections for immediate use (push-pull system)
- » Robust connectors for secure connections
- » Different types and cable lengths available
- » Typical reading range < 400 mm (depending on transponder type)

## Cable type

- » RG 174/U black, 50  $\Omega$ , temperature range from -35 / +80°C

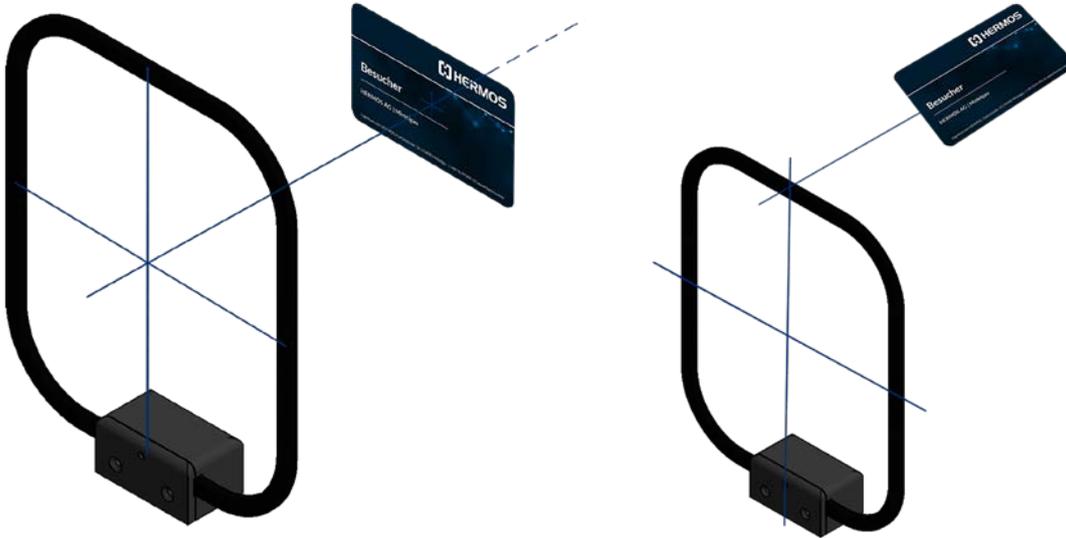
## Connection options

- » LEMO or SMA standard connector
- Customized connections and cable lengths possible

**Compatible with HERMOS RFID readers (base HF)**

## The highlights

The two diagrams show the optimum alignment and position of the transponder to the antenna. The ranges depend on the ambient conditions and on the type and quality of the transponders used.



| Part number           | Description         |           |  |
|-----------------------|---------------------|-----------|--|
|                       | Housing             | Plug type | Length   |
| HRF.A.HFX.R1915.SU.18 | Frame 190x150       | SMA       | xx = antenna cable in dm<br>(10 = 1.0 m) available lengths: 1.0<br>1.8 2.0 3.0 3.6 m |
| HRF.A.HFX.R1915.LU.00 | Frame 190x150       | LEMO      | -  |
| HRF.A.HFX.R1519.LU.00 | Frame 150x190       | LEMO      | -  |
| HRF.A.HFX.R1713.LU.00 | Frame 170x130       | LEMO      | -  |
| HRF.A.HFX.R1317.LU.00 | Frame 130x170       | LEMO      | -  |
| HRF.A.HFX.R1820.LU.00 | Frame 180x120       | LEMO      | -  |
| HRF.A.HFC.A1317.LU.00 | Frame Eight 130x170 | LEMO      | -  |

*(Further variants and customer-specific configurations available on request)*

## Technical data

|                                |                      |                               |                    |
|--------------------------------|----------------------|-------------------------------|--------------------|
| <b>Design:</b>                 | Frame antenna        | <b>Cable length:</b>          | Variant dependent  |
| <b>Dimensions:</b>             | Depending on variant | <b>Plug type:</b>             | Variant dependent  |
| <b>Antenna connection:</b>     | SMA/LEMO             | <b>Protection class:</b>      | IP 30              |
| <b>Diameter antenna cable:</b> | 3 mm                 | <b>Operating temperature:</b> | 0 °C to 50 °C      |
| <b>Antenna material:</b>       | PC Makrolon          | <b>Storage temperature:</b>   | -25 °C to 70 °C    |
| <b>Coating:</b>                | Halar                | <b>Permissible humidity:</b>  | at 50°C 25% to 80% |
| <b>Frequency:</b>              | 13,56MHz, ISO15693   | <b>Conformity:</b>            | RoHS, REACH        |
| <b>Cable jacket:</b>           | PVC                  |                               |                    |

