

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 Ω , temperature range from -35 / +80°C

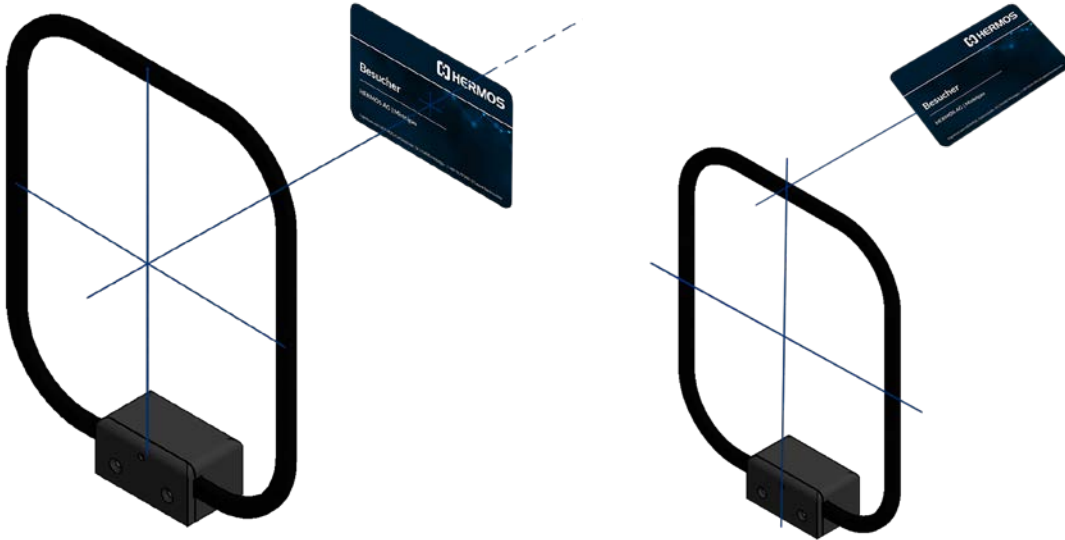
Connection options

- » 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 (10 = 1.0 m) available lengths: 1.0 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

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

