

# SIRIUS

## RFID Antenna Industry

**PART ID:**  
**4705**

The SIRIUS 4705 is a combined Air/Ferrite coil Antenna with Metal Support and was designed to be connected with fixed reader from the MAGNUM Series for used in waste management application. System integrators remove a tooth of the comb lifter and replace it with the SIRIUS LF antenna. The antenna is placed under the BIN TAG Chipnest transponder so that a good and accurate reading accuracy of the TECTUS Bin TAG 1021 is guaranteed.

### Main Specifications

Frequencies	<b>LF</b> HF UHF
Material	ABS with Epoxy
Operating Temperature	-20°C to 80°C
IP Class	IP67
Compliance	RoHs & Reach, CE
Key Features	ASK/FSK Modulation, ON-Metal Use, Rough Environment, Stainless Steel Support



### Full Specifications

Product ID	4705
Name	SIRIUS
Material	ABS with Epoxy
Shape	Aircoil, Ferrite
Long Description	The SIRIUS 4705 is a combined Air/Ferrite coil Antenna with Metal Support and was designed to be connected with fixed reader from the MAGNUM Series for used in waste management application. System integrators remove a tooth of the comb lifter and replace it with the SIRIUS LF antenna. The antenna is placed under the BIN TAG Chipnest transponder so that a good and accurate reading accuracy of the TECTUS Bin TAG 1021 is guaranteed.
Key Features	ASK/FSK Modulation, ON-Metal Use, Rough Environment, Stainless Steel Support
Comments	Reading Distance Depends On Reader and Transponder
Main Use	Waste Management
Article Type	Industry
Color	Black
Length [mm]	81

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Width [mm]	31
Thickness [mm]	37
Weight [g]	700
IP Class	IP67
PCB Material	ABS with Epoxy
Chemical Resistance	Not Specified
Flame Resistance	Not Specified
Mechanical Resistance	Not Specified
Compliance	RoHs & Reach, CE
Operating Temp °C (min)	-20
Operating Temp °C (max)	80
Storage Temp °C (min)	-20
Storage Temp °C (max)	80
Typical Reading Range	100
Operating Frequency	LF
Frequency Range	125-134 kHz
Antenna Inductance L [ $\mu$ H]	190 $\mu$ H
Antenna Resistance R [Ohm]	<5 Ohm
Connection	Open Wire
Cable Type	PUR Flex Cable
Cable Length	8 m
Mounting Method	Srews

## VARIANTS

ID	Variant
4705-01-000-00	Open Wire