# SIRIUS

**RFID Antenna**
**Industry**

**PART ID:**
## 4706

The SIRIUS 4706 is a aircoil antenna with stainless steel housing 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 | **LF** HF UHF |
| Material | Stainless Steel + Epoxy |
| Operating Temperature | -20°C to 80°C |
| IP Class | IP67 |
| Compliance | RoHs & Reach, CE |
| Key Features | Rough Environment, ASK/FSK Modulation, Stainless Steel Housing |

## Full Specifications

| | |
|---|---|
| Product ID | 4706 |
| Name | SIRIUS |
| Material | Stainless Steel + Epoxy |
| Shape | Aircoil |
| Long Description | The SIRIUS 4706 is a aircoil antenna with stainless steel housing 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 | Rough Environment, ASK/FSK Modulation, Stainless Steel Housing |
| Main Use | Waste Management |
| Article Type | Industry |
| Color | Steel |
| Length [mm] | 81 |
| Width [mm] | 31 |

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Where application information is given, it is only advisory and does not form part of the specification.



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| | |
|---|---|
| Thickness [mm] | 37 |
| IP Class | IP67 |
| PCB Material | Stainless Steel |
| Chemical Resistance | Not Specified |
| Flame Resistance | |
| 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 [µH] | 190 µH |
| Antenna Resistance R [Ohm] | < 5 Ohm |
| Connection | Open Wire |
| Cable Type | PUR Flex Cable |
| Cable Length | 8 m |
| Mounting Method | Srews |

## VARIANTS

| ID | Variant |
|---|---|
| 4706-01-000-00 | PLUG M12 |

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