

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

| | |
|---------------------------------|------------------|
| 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 [μ H] | 190 μ 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 |