

# On Metal Bin Tag

Robust low frequency tag for waste management applications

- ▶ **Optimized** – Engineered specifically for metal container identification
- ▶ **Durable** – Designed for outdoor use and strong mechanical resistance
- ▶ **Convenient** – Screwable form factor easily mounts on bins



## SECURE logistics.

With its superior performance and reliability, customers can benefit from cost-effective waste management through RFID tracking. HID Global's On Metal Bin Tag features a passive contactless transponder designed to communicate with a reader via radio frequency identification (RFID) technology. The bin tag is the appropriate product to improve waste management in industries and municipalities by enabling pay-as-you-throw programs, providing a tool for recycling incentives and/or eliminating error-prone and expensive manual data collection.

Specially designed to offer the same great performance for plastic and metal container identification, where the bin composition can negatively affect the reading performance of a standard tag due to signal reflection, the On Metal Bin Tag can be easily mounted on receptacles of all shapes and sizes. The tag can also be mounted on plastic trash bins and performs well, making this tag the product of choice for those organizations working with both plastic bin and metal bin assets. Its robust plastic housing and reliable electronics provide excellent stability over fluctuating temperatures from  $-40^{\circ}\text{C}$  up to  $+90^{\circ}\text{C}$  degrees. The tag is also highly resistant to aggressive liquids encountered in waste management applications such as salt water and mineral or motor oils. The On Metal Bin Tag is simply ideal for all customers whose physical environmental characteristics of weather and metallic waste container composition require an optimized tag. The tag's unusual four-cavity screw top design helps prevent fraudulent removal of tags in place in the field. HID Global offers a companion installation tool which makes it easy to attach the bin tag to field-deployed assets or bins manufactured without tags mounted as part of the production process.

The On Metal Bin Tag is available in two versions, UNIQUE (125 kHz) and BDE (134.2 kHz). The BDE version is compliant with EN14803 directive regulating the requirements for methods of identification of waste containers and determination of waste quantity.

### Key Features:

- ▶ Excellent performance on metal waste bins and containers
- ▶ Robust construction and tag housing to withstand physical and chemical impacts
- ▶ Security through unique identification numbers (UID)
- ▶ Relatively small size of 38 mm x 15 mm provides unobtrusive mounting

## On Metal Bin Tag

|  |   |
|--|---|
| <b>Base Model Number</b>               | 601133 – UNIQUE version (125 kHz)<br>606133 – BDE version (134.2 kHz) |
| <b>Diameter</b>                        | 38.0 mm ± 0.5 mm  |
| <b>Thread Diameter</b>                 | 33.0 mm ± 0.5 mm  |
| <b>Thickness</b>                       | 15.0 mm ± 0.5 mm  |
| <b>Weight</b>                          | 14 g ± 2 g  |
| <b>Material</b>                        | PA6, PUR potting  |
| <b>Color</b>                           | Black   |
| <b>Chip Type</b>                       | UNIQUE - 64 bits Read Only<br>BDE – 128 bits Read Only                |
| <b>Operating Frequency</b>             | 125 kHz / 134.2 kHz   |
| <b>Water Immersion<br/>IP67</b>        | 20°C, 24h, 1m   |
| <b>Salt Water</b>                      | 20°C, 100h  |
| <b>Motor Oil</b>                       | 20°C, 100h  |
| <b>Mineral and Vegetable<br/>Oils</b>  | 20°C, 100h  |
| <b>Axial Compression</b>               | 1000N (10 sec)  |
| <b>Shock</b>                           | IEC 68 part 2-29 (40 g, 18 ms, 6 axis, 2000 times)                    |
| <b>Vibration</b>                       | IEC 68 part 2-6 (10 g, 10...2000 Hz, 3 axis, 2.5h)                    |
| <b>Storage Temperature</b>             | - 40°C to +90°C (1 x 1000h)   |
| <b>Operation<br/>Temperature</b>       | - 40°C to +85°C   |
| <b>Shock / Fatigue<br/>Temperature</b> | - 40°C to + 90°C (100 x 10 min with transition time of 30 sec)        |

## IC Features

| Chip                 | Frequency | Data rate<br>(k/bits) | Unique ID<br>number<br>(UID)  | Read/Write<br>memory | User<br>memory | Security          | Anticollision | ISO<br>Compliance |
|----------------------|-----------|-----------------------|-------------------------------|----------------------|----------------|-------------------|---------------|-------------------|
| <b>UNIQUE</b>        | 125 kHz   | 2                     | 40 bits UID<br>64 bits total  | 0                    | 0              | UID &<br>database | No            |                   |
| <b>FDX-B<br/>BDE</b> | 134.2 kHz | 4                     | 64 bits UID<br>128 bits total | 0                    | 0              | UID &<br>database | No            | I1785             |

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MKT-BIN\_TAGS\_UNIQUE\_BDE\_DS\_EN



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