Plug Tag

Low Frequency Rfid Tags Enable Improved Tracking Of Plastic Waste Bins And Containers



HID Plug Tag transponders enable the cost-effective tagging of plastic residential, commercial and industrial waste containers for tracking usage via radio frequency identification (RFID).

Automated tracking accelerates waste management processes, and enables pay-as-you-throw and recycling incentive programs, while eliminating error-prone and expensive manual data collection methods historically used for these systems.

The durable Plug Tag housing protects embedded electronics, delivering reliable performance in harsh waste management and logistics environments. Each tag is completely waterproof, and consistently readable, even when temperatures dip to -13° F (-20° C) or rise to 185° F (85° C).

Ridges around the shaft ensure that the RFID tag inserts easily, yet is locked securely into place to prevent tag loss or removal in the field. Plug Tag transponders include read-only memory, in 64 bit UID or 128 bit FDX-b options.

For metallic containers, the HID Bin Tag and IN Tag families include tags that deliver consistent, reliable performance when mounted on metal. In addition, these lines include high frequency and UHF chip options, and available read-write memory up to 2048 bits.

HID will help identify and provide the optimal RFID transponder choice for your application.



KEY BENEFITS:

- Easily integrated, yet tamper resistant – inserts securely into standard pre-drilled holes in waste bins and containers
- Sturdy – resistant to liquids, thermal fluctuation, vibration and shock
- Unsurpassed quality – fully automated HID manufacturing and direct-bonding technology ensure dependable performance

TECHNOLOGY HIGHLIGHTS:

- 100% waterproof (IP68)
- Height 0.75 in (19 mm), with diameters of:
  - 0.35 in (9 mm) - shaft
  - 0.59 in (15 mm) - cap
- Integrated chip options:
  - Unique, 131 kHz, 64 bit read-only memory
  - FDX-b, 134.2 kHz, 128 bit read-only

Plug Tag



HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials.

APPLICATION AREAS

Waste Management

- Residential, commercial and industrial waste bin tracking
- Recycling compliance monitoring
- Improved invoicing and service accuracy
- Route optimization systems
- Incentive-based waste and recycling programs

Returnable transport items

- Perishable produce crates
- Stock system bins

	Plug Tag	
	Unique	FDX-b
		
Base Model Number	601920-001	684921-002
	ELECTRONIC	
Operating Frequency	131 kHz ± 6	134.2 kHz ± 6
Chip Type	Unique	FDX-b BDE
Memory	64 bit read-only	128 bit read-only
	PHYSICAL	
Dimensions	Ø 0.35 x 0.75 in, cap Ø 0.59 in (Ø 9 x 19 mm, cap Ø 15 mm)	
Mounting Method	Insert into pre-drilled hole	
Affixes To	Plastic	
Housing Material	PA6	
Color	Black	
	CHEMICAL AND MECHANICAL RESISTANCE	
Water	IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h	
Flame Resistance	IEC 68.2.6 [10 g, 10 to 2000 Hz, 3 axis, 2.5 h]	
Vibration	IEC 68.2.29 [40 g, 18 ms, 6 axis, 2000 times]	
Shock	IEC 68.2.29 (40 g, 18 ms, 6 axis, 2000 times)	
	THERMAL	
Storage	-13° to +185° F (-20° to 85° C), 1000 h	
Operating	-13° to +185° F (-20° to 85° C)	
	OTHER	
Standards		EN 14803, ISO 11785
Options	Alternative colors	
Box Size	1000 pcs	
Warranty	7 years	

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CE

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2022-06-15-hid-dt-rfid-il-plug-tag-ds-en PLT-00282
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