



FERROX «TAG»

FXT on Metal Screw Box



SMART ON METAL



SMART ON LIQUID



SMART AT SPEED

FXT on metal screw box

Ferroxtag is a new family of RFID (Radio Frequency IDentification) tags suitable for operation attached to metallic items, such as totes, barrels, gas cylinders and industrial equipment. Operation frequency is 13.56 MHz. Ferroxtag's key feature is the direction of the field activating the device: it is not perpendicular to the identified item but parallel to it;

this means that the performance is almost independent of the material of the item identified. No need to worry about electro-magnetic reflection on metals.

The Ferroxtag core is an outstanding high magnetic permeability ferrite material that enhances the performance of the winding, thus reducing the dimensions of the coil.

Product description

Ferroxtag on Metal Screw Box is a High Frequency (13.56 MHz) RFID tag optimized for identification of metallic items. It can be screwed to the item and/or stuck on it with the bottom side adhesive tape.

Supports ISO15693 and ISO18000-3 air interface, being the reading range 30 cm on metal.

Overall dimensions are 25 x 12.5 x 5 mm, including the holes for screws.



Mechanical properties	
Operating temperature	-25°C to 130° C
Dimensions	25 x 12.5 x 5 mm
Weight	2.5 grams
Case material	POLYAMIDE 66 UL94-V0 compliant sealed with epoxy resin
Degree of protection	IP68
Colors	Black, blue, brown, beige
Clamping to items	Screws, glue, double sided adhesive tape

Ferroxtag mechanical properties make this product ideal for metal container and metallic items identification.

The encapsulation protects the device against impacts and harsh environments, making it suitable for industrial applications.

Tag installation

It is recommended to install the tag on a corner or in the closest position to the reader antenna. Optimal performance is achieved by orientating the device towards the reader as shown in the figure.

The package protects the electronics from harsh conditions, like extreme humidity, and maximum continued temperatures of 130°C, and peaks at 250°C for short periods.



Functional properties	
Operating frequency	13.56 MHz (ISM, licence free)
Air interface	ISO15693, ISO18000-3
Unique identifier	8 bytes
EEPROM memory	1024 bits, 32 blocks x 4 bytes
Anticollision supported	Yes
Data transfer	Up to 53 kbits/sec
Reading range on metal	30 cm (typ for 4 watts reader)

Ferroxtag is ISO15693 compliant, so it can be read and written with most common HF readers.

The outstanding reading range in such a small package combined with the ability to work around metals makes Ferroxtag an ideal alternative for both low and high frequency tags.

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