



FERROX «TAG»

FXT with Bar Code



SMART ON METAL



SMART ON LIQUID



SMART AT SPEED

RFID

(13.56 MHz)

FXT with Bar Code

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 electromagnetic 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 with Bar Code is a High Frequency (13.56 MHz) RFID tag with the ID number bar code printed on the encapsulation. This allows fast automatic reading through RFID technology, keeping the possibility to read it with a standard bar code reader.

RFID and optical identification complement

each other in this Ferroxtag with Bar Code. Supports ISO15693 and ISO18000-3 air interface, being the reading range 35 cm. The encapsulation protects the device while eases the mounting on the item by means of the adhesive sticker supplied in the back.

Mechanical properties	
Operating temperature	-25°C to 60°C
Dimensions	42 x 20 x 12 mm
Weight	3.5 grams
Case material	ABS
Degree of protection	IP68
Colors	Black, others upon request
Clamping to items	Glued or stuck

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

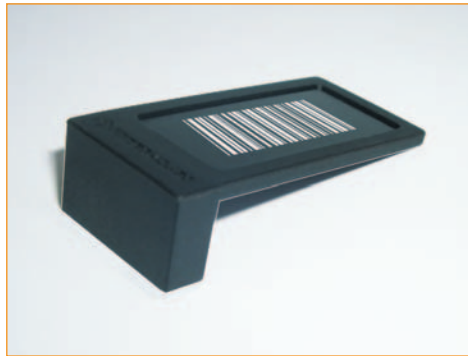
The encapsulation protects and eases the installation in a wide range of boxes and assets.

Tag installation

Thanks to the angle shape of the encapsulation, the tag can be placed in any corner of the item.

Optionally, the bar code can be placed on any of the 2 sides of the long side.

The encapsulation material is ABS, but other types are available upon request, such as Polyamide 66.



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	35 cm (typ for 4 watts reader)
Bar code printing	Thermal printed on 12 x 24 sticker
Bar code ID	Last 4 bytes of the tag ID (8 hex characters)

Ferroxtag is ISO15693 compliant, so it can be read and written with most common HF readers. Thanks to the double identification (RFID and bar code) it possible to identify the item in the field with a hand held bar code reader.

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