![TheTagFactory - ENGINEERING RFID SOLUTIONS]

M-Nano Tag

FEATURES

- M-Nano Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag is very small in size & has very good read range, especially when attached to metal.
- The product has been designed to be easily attached by adhesive.
- Can be used with cable ties through its mounting hole.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- Used in IT asset tracking applications such as backup tapes, servers, hard drives, and media tapes without any human intervention.
- Inventory control of small tools and manufacturing equipment, servers, and network routers.

Chip Type:	**Alien Higgs 9, GS1 Class 1 Gen 2**	
	EPC Memory: Up to 496-EPC Bits (nominally 96 bits)	
	User Memory: Up to 688 Bits	
	Data Retention: 50 Years	
	Write Endurance: 200,000 Cycles	

Mechanical:	**Dimension**	38.5 x 14 x 3.5 mm
	Face Material	Polyester
	Colour	Blue & white
	Weight	2 g

Electrical:	**Operating Frequency**	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)

Ingress Protection:	IP54

Thermal:	**Storage Temp.**	-20°C to +70°C
	Operating Temp.	-20°C to +70°C

Part Number:	319V1-Ex01
Atex Marking details:	(Ex) II 1 G, Ex ia IIC T5 Ga
Options:	**Available with:**
	Other IC type and Frequency on request
	Other colour combination & material
	Adhesive backing / hanging thread for easy mounting
	Non-metallic application

38.5 mm

14 mm

3.5 mm

Ø 3.9 x 1.5mm
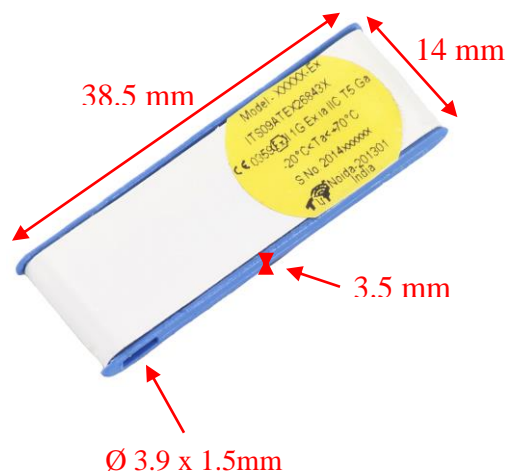
Note: Tolerance applicable are Length: ±1mm, Width: ±0.5mm and Thickness: ±0.3mm

Tag Placement

- M-Nano is polarized perpendicular to TTF logo.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the tag and the reader antenna.
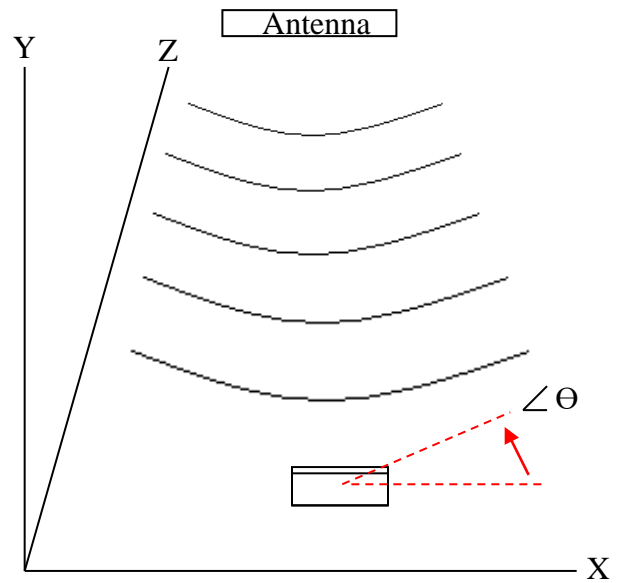- Reader antenna should be parallel to the length of tag as shown in below figure:

Correct way

Wrong way

Antenna

Antenna

Tag

Tag

Metal

Metal
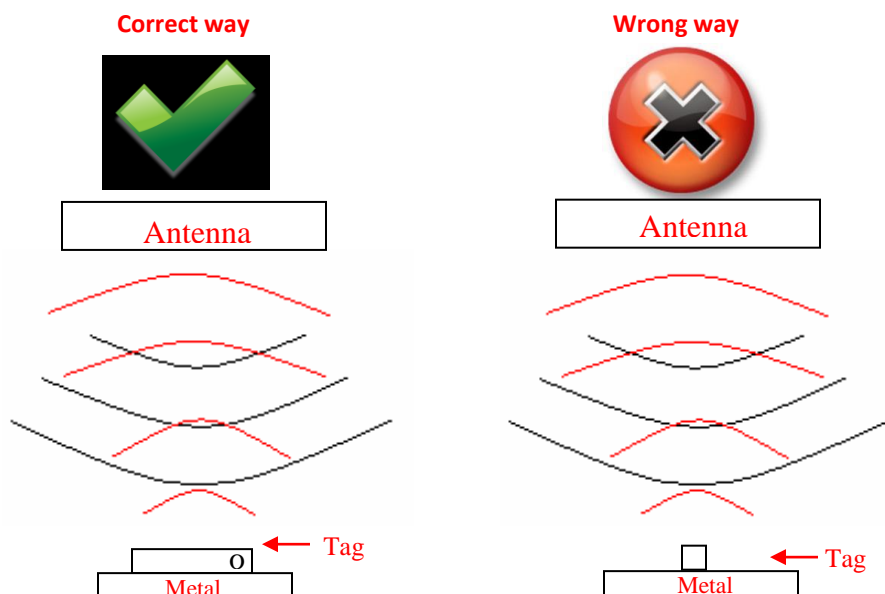
- Tag can be attached through adhesive tape or can be hanged through nylon thread.

M-Nano Tag Angular Sensitivity
(Relative Read Range vs. Orientation)
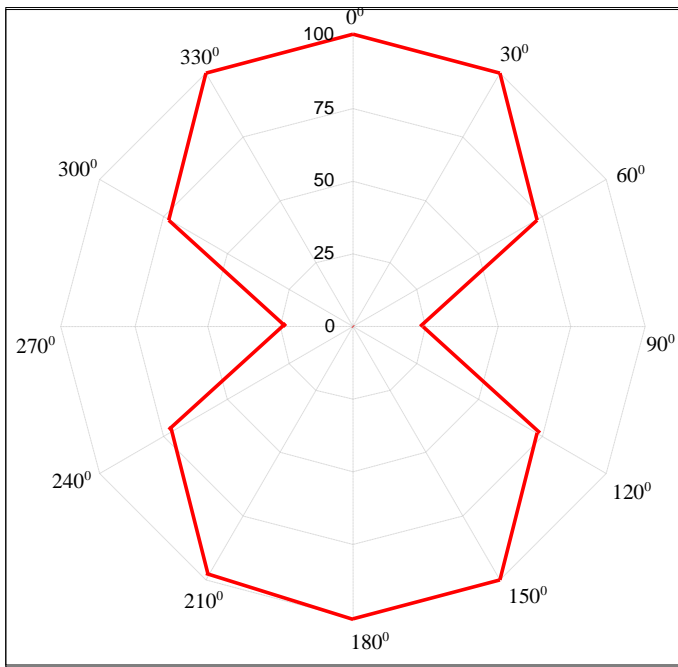
Read range (in percent) at various angle.

Tag is rotated in the X-Y plane about the z axis