TheTagFactory
ENGINEERING RFID SOLUTIONS

Data Sheet

M-Armada Tag

FEATURES

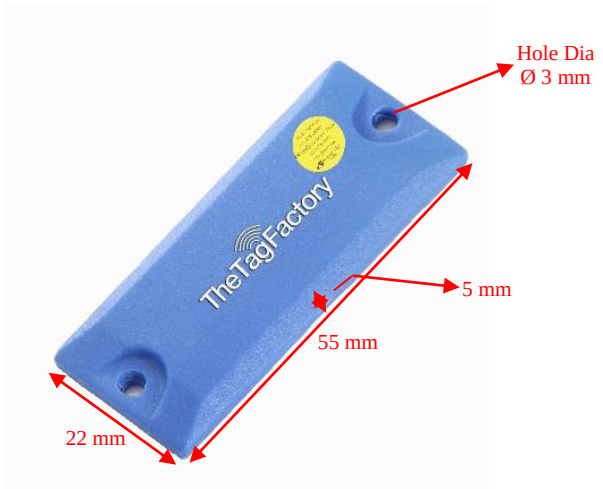
- M-Armada Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- Operates effectively with a very good read range, especially when attached to metal.
- Rugged construction for high durability
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- Used in asset tracking applications such as Equipment, Parts, Containers, railway, and warehousing solutions.
- Factory automation, Automotive & Security purpose.

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**	55 x22 x 5mm
	Material	ABS
	Colour	Blue
	Weight	5.6 g
Electrical:	**Operating Frequency**	865-868MHz, (902-928MHz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	**Storage Temp.**	-20°C to +70°C
	Operating Temp.	-20°C to +70°C
Part Number:	369V1-Ex01	
Atex Marking detail:	II 1 G, Ex ia IIC T5 Ga	
Options:	**Available with:**	
	Other IC type and Frequency on request	
	Other plastic material and colors	
	Adhesive backing for easy mounting (indoor application)	
	Available for non-metallic application	

Dimension

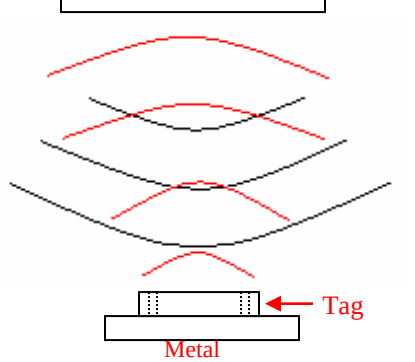


Note: Tolerance applicable are Length: ±1mm, Width: ±0.5mm and Thickness: ±0.3mm

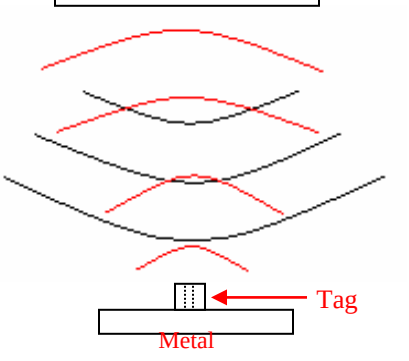
Tag Placement

- M-Armada is polarized parallel to the length.
- 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 tag length as shown in below figure:

Correct way



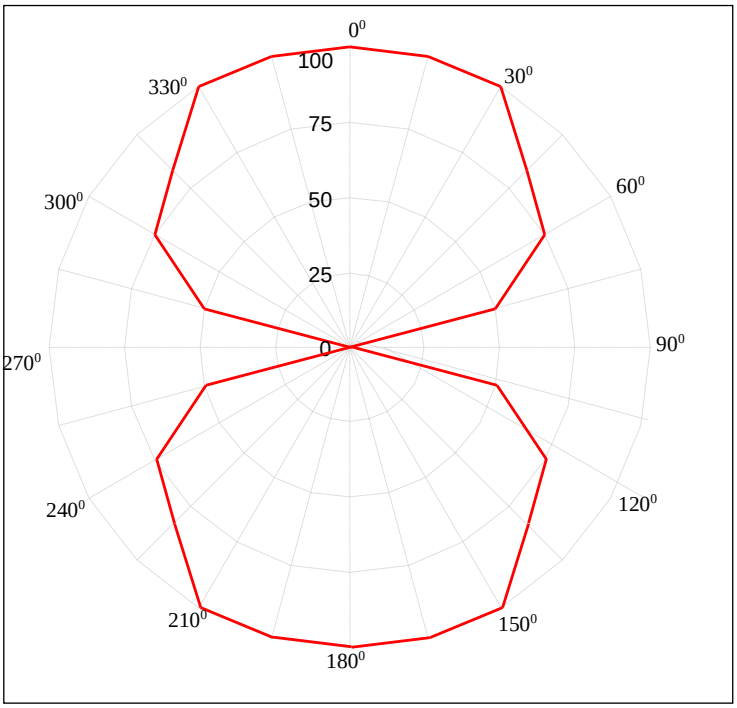
Wrong way



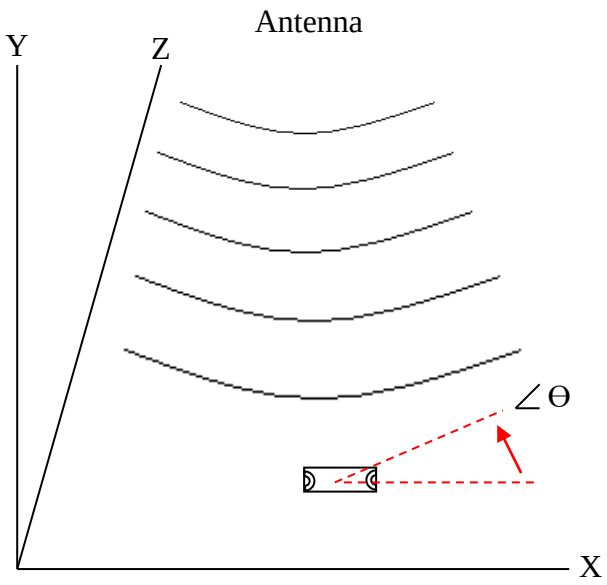
- Tag can be attached either through screw M3/ Rivets / Adhesive tape.
- The distance between the hole to hole is 47mm

M-Armada Tag orientation 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