





M-Shield Tag

FEATURES

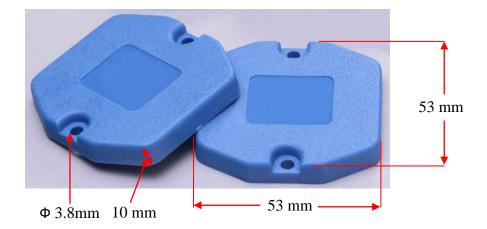
- M-Shield Tag is ATEX approved and thus can be used in potentially explosive atmosphere.
- The tag operates effectively with read range of over 10m when attached to metal.
- Rugged construction for high durability.
- Can be attached by screws with the help of two holes.
- Can also be provided with Adhesive tape for easy attachment.

APPLICATIONS

- Due to high read range, M-Shield can be effectively used in asset tracking, Warehouse management, Containers and Railway Coaches identification.
- 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	53 x 53 x 10mm
	Material	ABS
	Colour	Blue
	Weight	25 g
Electrical:	Operating Frequency	865-868MHz, (902-928Mhz also available on request)
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP67	
Ingress Protection:	IP67	
	IP67 Storage Temp.	-20°C to +70°C
Ingress Protection: Thermal:		-20°C to +70°C -20°C to +70°C
	Storage Temp.	
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Thermal: Part Number:	Storage Temp. Operating Temp. 317V1-Ex03 X II 1 G,Ex ia IIC T5 Ga	-20°C to +70°C

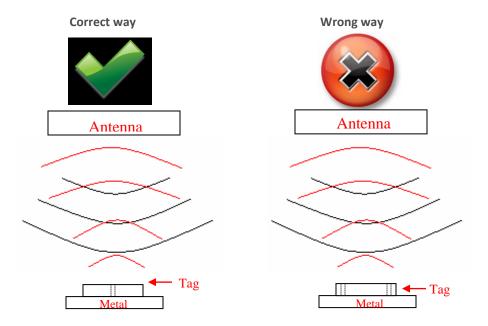
Adhesive backing for easy mounting (indoor application)



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

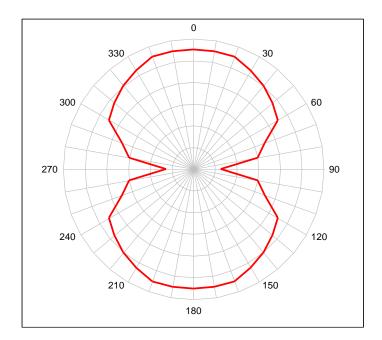
Tag Placement

- M-Shield 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 perpendicular to the axis of tag hole as shown in below figure:

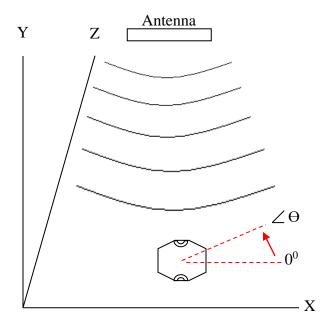


M-Shield Tag Angular Sensitivity

(Relative Read Range vs. Orientation)







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