![TheTagFactory - ENGINEERING RFID SOLUTIONS logo]

CE Ex

M-Prince Tag

FEATURES

- M-Prince 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**	90 x 34 x 7mm
	Material	ABS
	Colour	Blue
	Weight	19.3 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:	316V1-Ex01
Atex Marking details:	Ex II 1 G, Ex ia IIC T5 Ga
Options:	**Available with:**
	Other IC type and Frequency on request
	Other plastic material and colours
	Adhesive backing for easy mounting (indoor application)
	Available for non-metallic application

Φ5mm

90 mm

34 mm

7mm
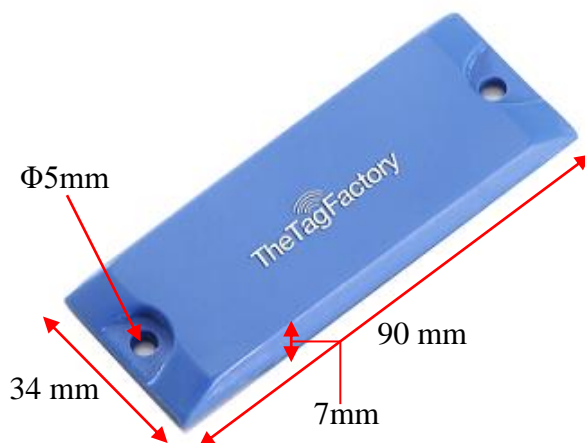
Note: Tolerance applicable are Length: ±1mm, Width: ±0.5mm and Thickness: ±0.3mm
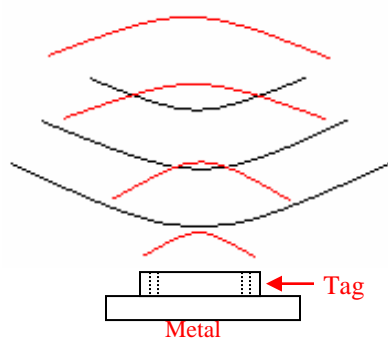
- M-Prince is polarized perpendicular to TTF logo.
- Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- Ensure that there is no hindrance between the tag and the reader antenna.
- Reader antenna should be parallel to the tag length as shown in below figure:
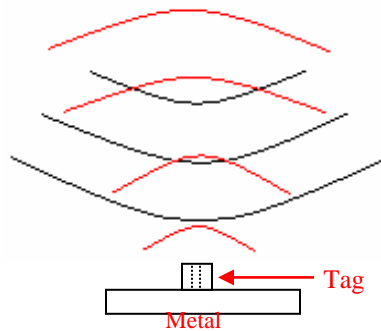
Correct way   **Wrong way**

Antenna   Antenna

Tag   Tag
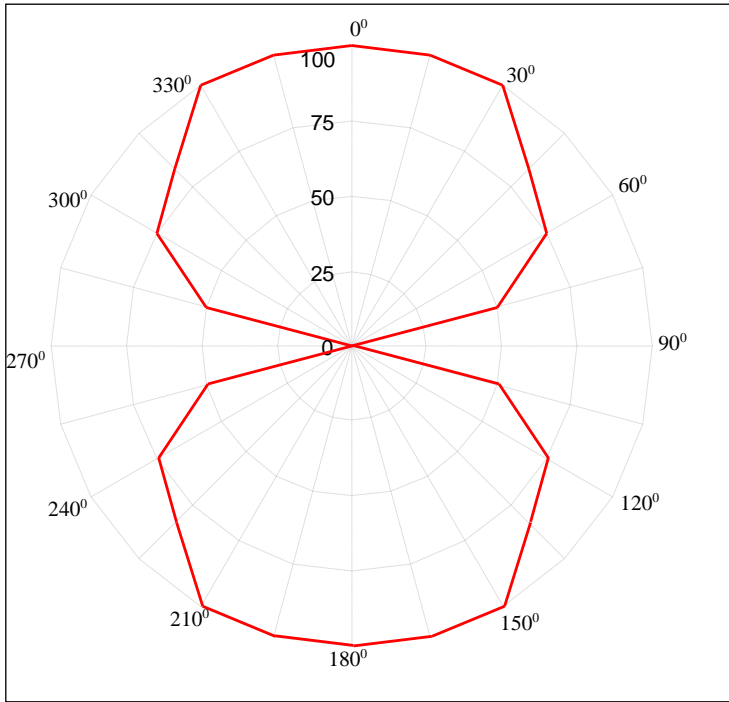
Metal   Metal

- Tag can be attached either through screw M5/ Rivets / Adhesive tape.
- The distance between the hole to hole is 80mm

M-Prince 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