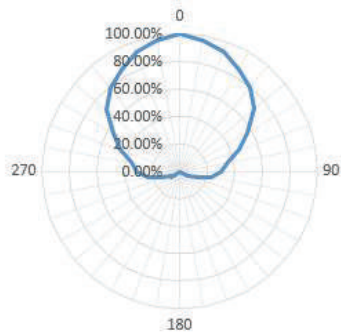




## XS WEDGE

### Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US) ; 865-868 MHz (EU)
- **IC type (chip)**<sup>1</sup> Alien Higgs-3
- **Chip memory** 96 bits EPC; extensible to 480 bits; 64 bits unique TID; 512 bits User Memory
- **Read range fixed**<sup>2</sup> Up to 3.3 ft (1 m) US; Up to 2.6 ft (0.8 m) EU
- **Read range handheld**<sup>2</sup> Up to 1.6 ft (0.5 m) US; Up to 1.3 ft (0.4 m) EU
- **Polarization** Linear
- **Radiation Pattern**



### Key features

- + **Embeddable in metal**
- + **Withstand extreme temperatures and pressure:** up to 250°C
- + **Small form factor:** fit for small assets
- + **Injection molded structure:** resistant to liquids and corrosion

### Applications

- Onshore and Offshore pipes
- Heavy equipment and tools
- Automotive manufacturing
- Industrial molds

### Environmental Specifications

#### Temperatures

- Operational -40°C to +85°C
- Survival -50°C to +220°C (168 hours)
- Peak 250°C (2 hours)

#### Chemicals

- 24h H<sub>2</sub>SO<sub>4</sub> (10% sulfuric acid)
- 24h HNO<sub>3</sub> (10% nitric acid)
- 24h H<sub>3</sub>PO<sub>4</sub> (20% phosphoric acid)
- 24h H<sub>2</sub>O<sub>2</sub> (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)

- **IP rating** IP68
- **Compression strength** 10,100 psi (70 MPa)

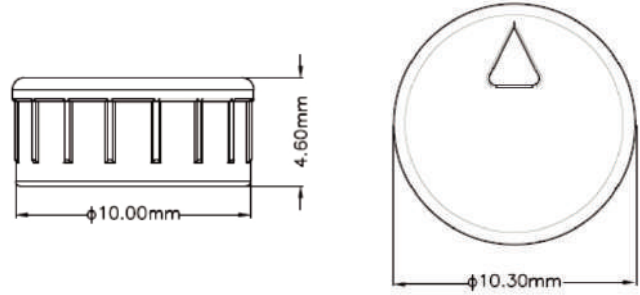
- **Weatherability** UV resistance, sea water
- **Warranty** 1 year

<sup>1</sup> The chip data retention is up to 50 years, based on chip operating under general environment conditions.

<sup>2</sup> Embedded in metal read range (2W EPR)

## Physical Specifications

- **Material** Industry grade polymer
- **Dimensions (in)**<sup>1</sup> ∅ 0.405 x 0.181
- **Dimensions (mm)**<sup>1</sup> ∅ 10.3 x 4.6
- **Weight** 0.28 oz (8 g)



### Mounting Systems

- Press fit, embedded

### Installation Instructions

Instructions for optimal performances:

1. Preparation - For a spherical or curved surface, first make a plane on the surface (Length ≥12 mm \* Width ≥ 12 mm).
2. Drilling - Make a flat bottom groove on the metal surface 10 mm \* 5 mm).
3. Position - Put 1/3 of the XS Dot Wedge into the groove and adjust the tag's direction according to the object size. The Δ mark on the tag indicates the recommended installation direction to ensures the tag's polarization direction is parallel with the length of the metal asset. Read range performance will decrease when the polarization direction forms an angle with the length direction.
4. Insertion - Drive the remaining 2/3 of the tag into the groove, using a hammer or similar tool.



<sup>1</sup>Tolerance: +/- 0.004; +/- 0.1

## Industry Compliance



## Order Information

XS Wedge US: X4202-US100-H3

XS Wedge EU: X4202-EU100-H3

### Customization Options

Encoding

ATEX Certified Version

Laser Marking

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