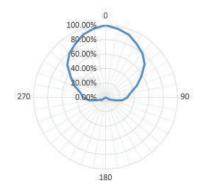
# XEBUL



# **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 9
- Chip memory 96 bits EPC, 48 bits TID. 688 bits user memory
- Read range fixed<sup>2</sup> Up to 3.28 ft (1 m) US; Up to 2.62 ft (0.80 m) EU
- **Read range handheld**<sup>2</sup> Up to 1.64 ft (0.50 m) US; Up to 1.31 ft (0.40 m) EU
- Polarization Linear
- Radiation pattern in metal



### **Key Features**

- + Embeddable: embedded in metal
- + **250°C:** withstand high temperatures
- + Small form factor: fits small asset
- + Injection molded case: resistant to

## **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<sup>3</sup>

- 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)
- Weatherability UV resistance, sea water Compression strength 10,100 psi (70 MPa)
  Warranty 1 year

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

• IP rating IP68

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

 $<sup>^3</sup>$ The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on

#### XEBUL

## **Physical Specifications**

- Material Industry grade polymer
- Dimensions (in) Ø 0.41 × 0.18
- **Dimensions (mm)**<sup>1</sup> ø 10.30x 4.60
- Weight 0.28 oz (8 g)

#### **Mounting Systems**

· Press fit, embedded

#### Installation Instructions

1. Preparation - For a spherical or curved surface, first use a milling machine to 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 \* 4.60 mm).

3. Position - Put ⅓ of the XS Wedge into the groove and adjust the tag's direction according to the object size. The △ mark on the tag indicates the recommended installation direction to ensure 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.

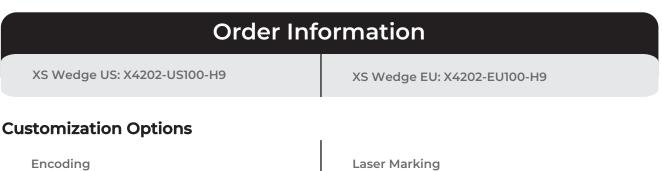
4. Insertion - Drive the remaining <sup>2</sup>/<sub>3</sub> of the tag into the groove, using a rubber hammer or similar tool.

<sup>1</sup> Tolerance: +/- 0.004; +/- 0.100

### Industry Compliance



**ATEX Certified Version** 

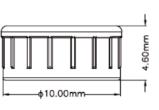


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