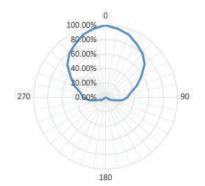
XEBUL



XS WEDGE

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- Frequency 902-928 MHz (US);
- 865-868 MHz (EU)
- IC type (chip)¹ Alien Higgs 9
- Chip memory 96 bits EPC, 48 bits TID. 688 bits user memory
- Read range fixed² Up to 3.28 ft (1 m) US; Up to 2.62 ft (0.80 m) EU
- **Read range handheld**² 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)

Chemicals³

- 24h H₂SO₄ (10% sulfuric acid)
- 24h HNO₃ (10% nitric acid)
- 24h H₃PO₄ (20% phosphoric acid)
 - 24h H₂O₂ (25% hydrogen peroxide)
- 24h NaOH (10% sodium hydroxide)
- Weatherability UV resistance, sea water Compression strength 10,100 psi (70 MPa)
 Warranty 1 year

² Embedded in metal read range (2W EPR).

• IP rating IP68

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 $^{^1}$ The chip data retention is up to 50 years, based on chip operating under general environment conditions.

 $^{^3}$ The chemical resistance is based on the concentration of solutions and application environment. Please contact Xerafy for further details on

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Physical Specifications

- Material Industry grade polymer
- Dimensions (in) Ø 0.41 × 0.18
- **Dimensions (mm)**¹ 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.

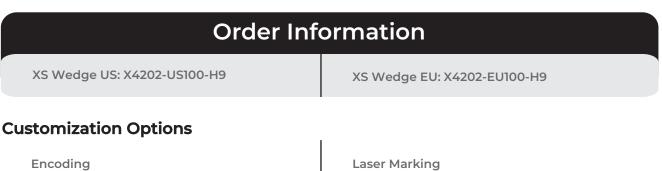
4. Insertion - Drive the remaining ²/₃ of the tag into the groove, using a rubber hammer or similar tool.

¹ Tolerance: +/- 0.004; +/- 0.100

Industry Compliance



ATEX Certified Version

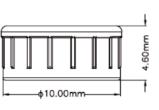


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