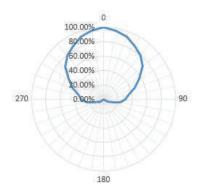




XS WEDGE

Technical Specifications

- RF protocol EPC global Class 1 Gen 2
- Frequency 902-928 MHz (US); 865-868 MHz (EU)
- IC type (chip) Alien Higgs 9
- Chip memory 96 bits EPC, 48 bits TID. 688 bits user memory
- Read range fixed Up to 3.28 ft (1 m) US; Up to 1.97 ft (0.60 m) EU
- Read range handheld² 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)

- **IP** rating IP68
- Compression strength 10,100 psi (70 MPa)
 Warranty 1 year
- Weatherability UV resistance, sea water

Version No: 24 06 11

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



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

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



Physical Specifications

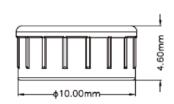
- Material Industry grade polymer
- **Dimensions (in)** Ø 0.41 x 0.18
- **Dimensions (mm)**¹ ø 10.30x 4.60
- Weight 0.28 oz (8 g)

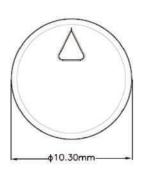
Mounting Systems

· 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 \geq 12 mm * Width \geq 12 mm).
- 2. Drilling Make a flat bottom groove on the metal surface (10 mm * 4.60 mm).
- 3. Position Put ½ 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 $\frac{2}{3}$ of the tag into the groove, using a rubber hammer or similar tool.







Industry Compliance

















Order Information

XS Wedge US: X4202-US100-H9

XS Wedge EU: X4202-EU100-H9

Customization Options

Encoding

Laser Marking

Version No: 24 06 11

ATEX Certified Version

The information provided by Xerafy Singapore Pte. Ltd. is for general information purposes only. All information on the datasheet is provided in good faith. However we make no representation or warranty of any kind, express or implied, regarding the accuracy, adequacy, validity, reliability, availability, or completeness of any information on the datasheet..

Under no circumstance shall we have any liability to you for any loss or damage of any kind incurred as a result of the use of the product or reliance on any information provided on the datasheet. Your use of the product and your reliance on any information on the datasheet is solely at your own risk.



¹ Tolerance: +/- 0.004; +/- 0.100