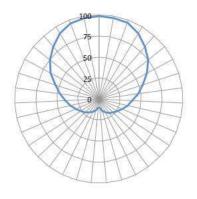




ROSWELL

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; 96 bits TID; 688 bits user memory
- Read range fixed Up to 16.40 ft (5 m)
- Read range handheld Up to 11.48 ft (3.50 m)
- Polarization Linear
- Radiation pattern on metal



Key Features

- + 250°C: withstand high temperatures
- + 180° readable: wider read angles
- + Aluminum case: withstand high pressures, compression, chemicals
- + Backplate: secure mounting options
- + IP68 rating: for waterproof

Applications

- Oil & Gas valve / Wellhead management
- Food processing plants
- Automotive manufacturing

Environmental Specifications



- Operational -40°C to +85°C
- Survival -40°C to +250°C

- Chemicals³
- 12h H₂SO₄ (10% sulfuric acid)
- 12h HNO₃ (10% nitric acid)
- $12h H_3PO_4$ (20% phosphoric acid)
- $12h H_2O_2$ (25% hydrogen peroxide)

- **IP** rating IP68
- Compression strength 115 psi (793 kPa)
- **Shock** 3ft (1 m) to concrete/granite
- Vibration MIL-STD-810G
- Warranty 1 year

Version No: 25 08 13

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



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

² Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.



Physical Specifications

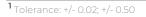
- Material Aluminum, Highperformance engineered polymer
- **Dimensions (in)**¹ 1.89 x 1.10 x 0.53
- **Dimensions (mm)**¹ 48 × 28 × 13.50
- **Weight** 0.74 oz (21 g)

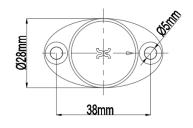
Mounting Systems

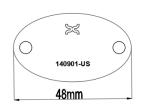
- · Welding
- · Rivets
- · Screws
- · Cable tie

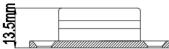
Installation Instructions

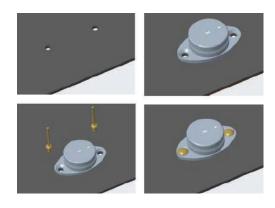
- 1. Position the tag in alignment with the metal surface's length, ensuring that the "X" symbol is parallel to the same direction.
- 2. Use M4 rivets for attachment:
- •Drill two holes (Ø 5) in the metal surface, pitch: 38 mm.
- · Utilize M4 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.
- 3. Use M4 screws for attachment:
- •Drill two holes (ø 3.20) in the metal surface, pitch: 38 mm.
- · Perform a M4 thread tapping procedure.
- · Utilize M4 screws to securely attach the tag to the metal surface.











Industry Compliance

















Order Information

ROSWELL US: X1114-US101-H9

ROSWELL EU: X1114-EU101-H9

Customization Options

Laser Marking

Encoding

Printing

Version No: 25 08 13

ATEX Certified Version

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