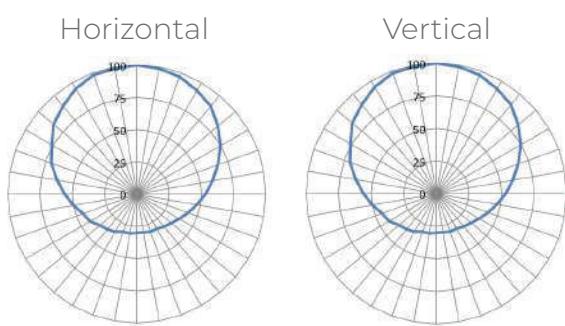




XPLORER DOWNHOLE

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 3
- **Chip memory** 96/480 bits EPC; 96 bits TID; 512 bits user memory
- **Read range fixed**² Up to 4.92 ft (1.50 m)
- **Read range handheld**² Up to 3.28 ft (1 m)
- **Polarization** Linear
- **Radiation pattern**



Environmental Specifications

Temperatures

- Operational -40°C to +85°C
-40°F to +185°F
- Survival -50°C to +250°C
-58°F to +482°F

Key Features

- **Embeddable:** embedded in metal
- **250°C:** withstand high temperatures
- **Stainless steel case:** withstand high pressures, compression, chemicals
- **IP69K rating:** waterproof

Applications

- **Onshore and offshore oil pipes management**
- **Downhole assets tracking**

Chemicals³

- Withstand drilling fluids and hydraulic fluids including hydrogen sulphide.

- **IP rating** IP68, IP69K
- **Compression strength**
< 13,000 psi (89 MPa)
- **Shock** 3 ft (1 m) to concrete/granite

- **Vibration** MIL-STD-810G
- **Warranty** 1 year

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

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

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

Physical Specifications

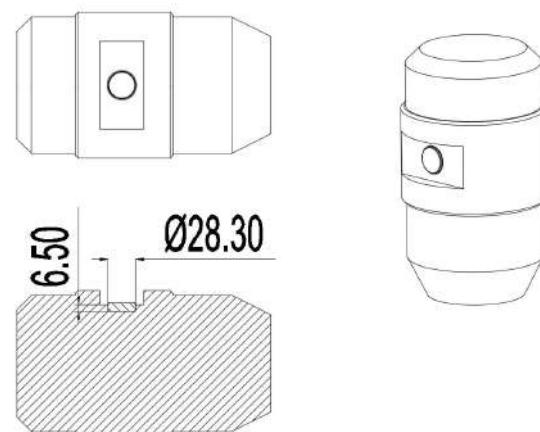
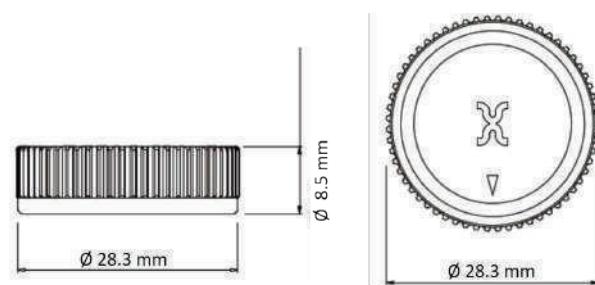
- **Material** Stainless steel 316L, High-performance engineered polymer
- **Dimensions (in)¹** $\varnothing 1.11 \times 0.33$
- **Dimensions (mm)¹** $\varnothing 28.30 \times 8.50$
- **Weight** 0.89 oz (25.40 g)

Mounting Systems

- Snap in, embedded

Installation Instructions

1. Drill a hole in the asset surface. The hole size should be carefully controlled in $\varnothing 28.30$ mm ± 0.05 \times 6.50 mm ± 0.10 mm. Suggest to use the drill bit with 28 mm diameter.
2. Put the tag in the hole with right orientation. The arrow mark needs to face towards the longer free metal surface side to get optimal read range performance.
3. Put a punch pin on the tag and hold the pin horizontally.
4. Hammer the punch pin and drive the tag into the hole.



¹ Tolerance: +/- 0.004; +/- 0.100

Industry Compliance



Order Information

XPLORE Downhole US: X1115-US101-H3

XPLORE Downhole EU: X1115-EU101-H3

Customization Options

Encoding

Laser Marking

Printing

ATEX Certified Version

The information provided by Xeray 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.