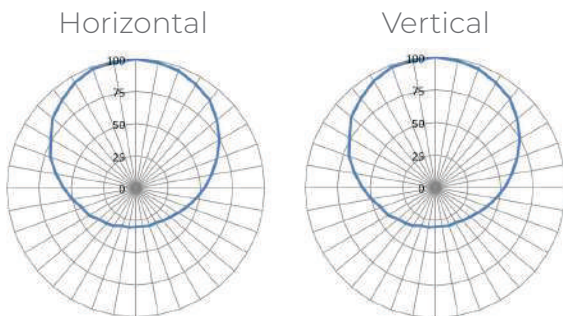




## XPLORER DOWNHOLE

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



### 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**

### Environmental Specifications

#### Temperatures



- **Operational** -40°C to +85°C
- **Survival** -50°C to +250°C

#### Chemicals<sup>3</sup>



- 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

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

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

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



## Physical Specifications

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

## Mounting Systems

- Snap in, embedded

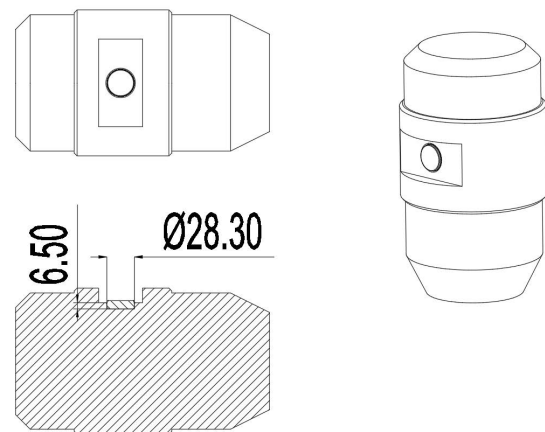
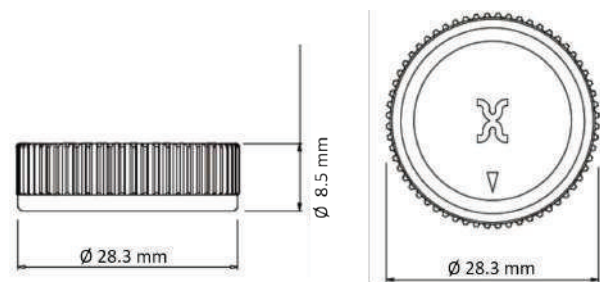
## Installation Instructions

1. Drill a hole in the asset surface. The hole size should be carefully controlled in  $\varnothing 28.30 \text{ mm} \pm 0.05 \times 6.50 \text{ mm} \pm 0.10 \text{ mm}$ . 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.



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

## Industry Compliance



## Order Information

Xplorer Downhole US: X1115-US101-H3

Xplorer Downhole EU: X1115-EU101-H3

## Customization Options

Encoding

Laser Marking

Printing

ATEX Certified Version

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