

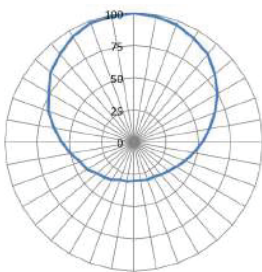


## XPLORER DOWNHOLE

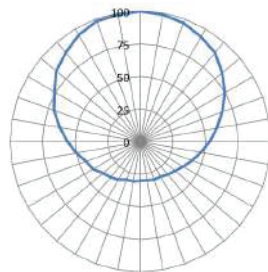
### Technical Specifications

- **RF protocol** EPC global Class 1 Gen2
- **Frequency** 902-928 (US); 865-868 (EU)
- **IC type (chip)**<sup>1</sup> Alien Higgs-3
- **Chip memory** 96 bits EPC; 64 bits unique TID; 512 bits user memory
- **Read range (fixed)**<sup>2</sup> Up to 4.9 ft (1.5 m)
- **Read range (handheld)**<sup>2</sup> Up to 3.3 ft (1.0 m)
- **Polarization** Linear
- **Radiation Pattern**

Horizontal



Vertical



### Key features

- + **Quick snap in attachment:** embeddable in metal
- + **Stainless steel structure:** withstands high pressure and vibration
- + **Hi-Temp and chemicals resistance:** up to 250°C
- + **IP68, IP69K rating:** for harsh environment

### Applications

- Onshore and Offshore Oil Pipes Management
- Downhole Assets Tracking

### Environmental Specifications

#### Temperature



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

#### Chemical resistance



- Withstands drilling fluids and hydraulic fluids including hydrogen sulphide.

- **IP rating** IP68, IP69K
- **Compression strength** 13,000 psi (89 MPa)
- **Shock (drop)** 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.

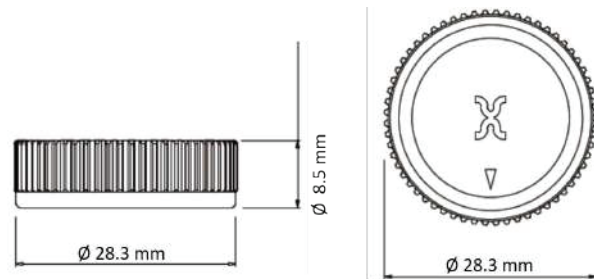


## Physical Specifications

- **Material** Stainless steel 316L
- **Dimensions (in)**<sup>1</sup>  $\varnothing$  1.11 x 0.33
- **Dimensions (mm)**<sup>1</sup>  $\varnothing$  28.3 x 8.5
- **Weight** 0.89 oz (25.4 g)

### Mounting Systems

- Snap in, embedded



### Installation Instructions

1. Create a flat surface sized to the recommended dimensions on the connect part of the drill pipe by using the milling machine.
2. Chamfer the length edge of the flat surface. This could help to reduce the wear during pipe drilling.
3. Drill a blind hole in the center of the flat surface at the recommended diameter and depth by drilling machine.
4. Clean the hole.
5. Place the Xplorer tag onto the asset near the hole with the side facing up. For maximum reading range, the mark on Xplorer surface need to face to longer free metal surface side
6. Use a press, such as an arbor press or a drill-press, and chuck the driver tool in the press
7. Visually align the asset and nested Xplorer with the driver tool.
8. Use the press to install the Xplorer until it is 0.5 mm below the pipe surface.

<sup>1</sup>Tolerance: +/- 0.004; +/- 0.1

## Industry Compliance



## Order Information

Xplorer Downhole US: X1115-US101-H3

Xplorer Downhole EU: X1115-EU101-H3

### Customization Options

Encoding

Laser etching

Printing

ATEX Certified Version

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