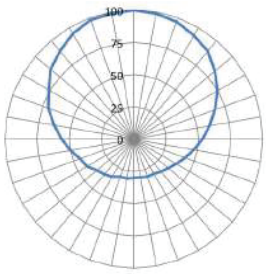
XPLORER SURFACE

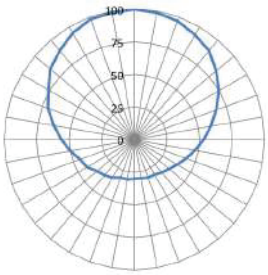
Technical Specifications

- **RF protocol** EPC global Class 1 Gen2
- **Frequency** 902-928MHz (US); 865-868MHz (EU)
- **IC type (chip)**[1] Alien Higgs-3
- **Chip memory** 96 bits EPC; 64 bits unique TID; 512 bits user memory
- **Read range**(fixed)[2] Up to 4.9 ft (1.5 m)
- **Read range**(handheld)[2] 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

- **Yard Management for Oil and Gas pipes**
- **Pipe maintenance**
- **Heavy equipment in Mining**
- **Building sites in Construction**
- **High-pressure ovens in Manufacturing**

Environmental Specifications

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

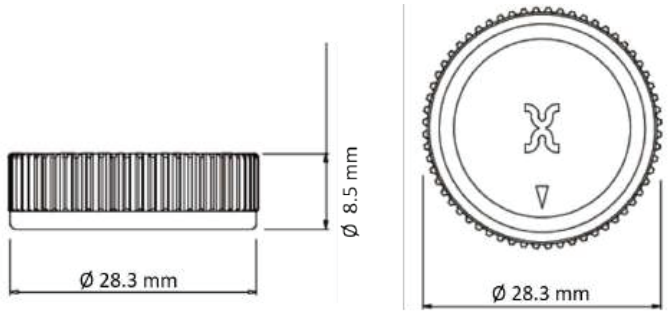
Chemical resistance[3]
- Various caustic chemicals

- **IP rating** IP68
- **Compression strength** 13,000 psi (89 MPa)
- **Shock (drop)** 3 ft (1 m) to concrete/granite
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[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.
[3] 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
- **Dimensions (in)**[1] ø 1.11 x 0.33
- **Dimensions (mm)**[1] ø 28.3 x 8.5
- **Weight** 0.89 oz (25.4 g)



Mounting Systems

- Snap in, embedded

Installation Instructions

1. Drill a blind hole on the asset surface at the recommended diameter and depth by drilling machine.
2. Clean the hole.
3. 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
4. Use a press, such as an arbor press or a drill-press, and chuck the driver tool in the press
5. Visually align the asset and nested Xplorer with the driver tool.
6. Use the press to install the Xplorer until it is 0.5 mm below the surface.

[1] Tolerance: +/- 0.004; +/- 0.1

Industry Compliance

Order Information

Xplorer Surface US: X1115-US111-H3	Xplorer Surface EU: X1115-EU111-H3

Customization Services

Encoding	Printing
Laser etching	ATEX Certified Version