

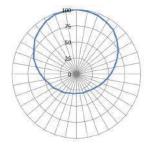


# **XPLORER SURFACE**

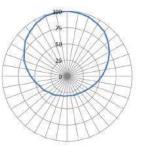
# **Technical Specifications**

- RF protocol EPC global Class 1 Gen 2
- Frequency 902-928 MHz (US); 865-868 MHz (EU)
- IC type (chip) Alien Higgs 3
- Chip memory 96 bits EPC; 64 bits unique TID; 512 bits user memory
- Read range fixed<sup>2</sup> Up to 4.92 ft (1.50 m)
- Read range handheld<sup>2</sup> Up to 3.28 ft (1 m)
- Polarization Linear
- Radiation pattern

#### Horizontal



#### Vertical



# **Key Features**

- + Embeddable: snap in metal
- + 250°C: withstand high temperatures
- + Stainless steel case: withstand high
- + IP69K rating: waterproof

# **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**

#### **Temperatures**



- Operational -40°C to +85°C
- Survival -50°C to +250°C
- **IP** rating IP68, IP69K
- Compression strength < 13.000 psi (89 MPa)
- Shock 3 ft (1 m) to concrete/granite

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



- Withstand drilling fluids and hydraulic fluids including hydrogen sulphide.
- Vibration MIL-STD-810G
- Warranty 1 year

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



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

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



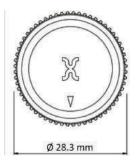
# **Physical Specifications**

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

#### **Mounting Systems**

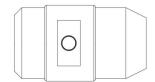
· Snap in, embedded

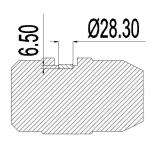
# © 28.3 mm



#### **Installation Instructions**

- 1. Drill a hole in the asset surface. The hole size should be carefully controlled in  $\emptyset$  28.30 mm  $\pm$  0.05  $\times$  6.50 mm  $\pm$  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.







# **Industry Compliance**

















# **Order Information**

Xplorer Surface US: X1115-US111-H3

Xplorer Surface EU: X1115-EU111-H3

### **Customization Options**

Encoding

Laser Marking

Printing

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ATEX Certified Version

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