

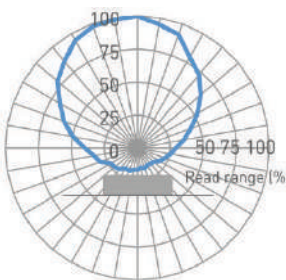


NFC RTI OUTDOOR

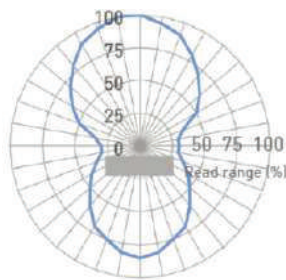
Technical Specifications

- **HF protocol** ISO 14443A
- **Frequency** 13.56 MHz (HF)
- **IC type** (HF chip)¹ NXP NTAG213
- **Chip memory** (HF)² 7 bytes UID; 144 bytes user memory
- **Read range** HF³ Up to 0.03 ft (0.60 cm)
- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type** (UHF chip)¹ Impinj R6-P
- **Chip memory** (UHF)² 128/96 bits EPC; 48 bits TID; 32/64 bits user memory
- **Read range** UHF³ Up to 29.53 ft (8 m)
- **Polarization** Linear

On metal



Off metal



Key Features

- + **Smart phone:** infrastructure-light technology
- + **Battery-Free:** long-life passive tracking devices
- + **Durable:** designed for industrial durability
- + **8 m read-range:** combined with UHF RFID for longer range

Applications

- Legacy tracking systems
- Oil and Gas assets
- RTI management
- Production logistics

Environmental Specifications

Temperatures



- Operational -40°C to +75°C
- Survival -40°C to +75°C

- **IP rating** IP68
- **Compression strength** 26 psi (180 kPa)
- **Shock** 3ft (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.

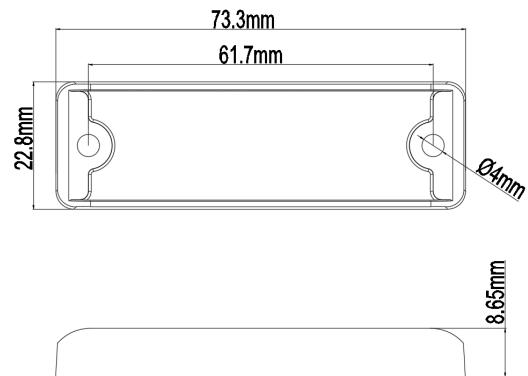
² EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Fix reader on metal



Physical Specifications

- **Material** Anti-UV industry grade polymer
- **Dimensions (in)**¹ 2.88 x 0.90 x 0.34
- **Dimensions (mm)**¹ 73.30 x 22.80 x 8.65
- **Weight** 0.40 oz (11.2 g)



Mounting Systems

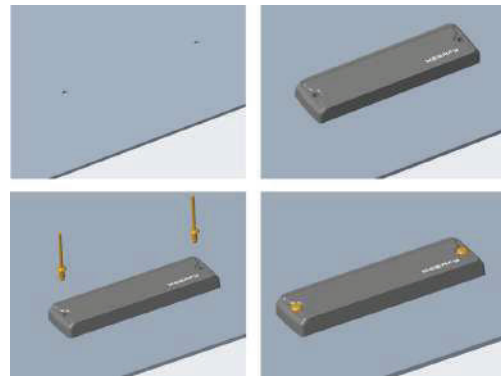
- Rivets
- Cable ties (optional)
- Industrial adhesive (optional)

Installation Instructions

Use M3 rivets for attachment:

1. Drill two holes (ø 3.50) in the metal surface, pitch: 61.70 mm.
2. Utilize M3 rivets in conjunction with a rivet gun to securely fasten the tag onto the metal surface.

* Other installation options: adhesive / cable tie (based on your application environment)



¹ Tolerance: +/- 0.02; +/- 0.50

Industry Compliance



Order Information

NFC RTI OUTDOOR US: X0316-US110-NTAG213

NFC RTI OUTDOOR EU: X0316-EU110-NTAG213

Customization Options

Encoding (UHF)

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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