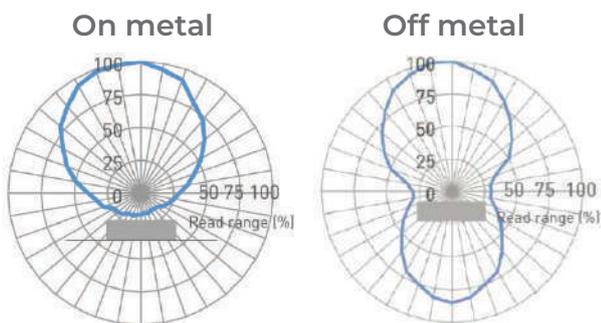




RTI OUTDOOR

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902-928 MHz (US); 865-868 MHz (EU)
- **IC type (chip)**¹ NXP U9xe
- **Chip memory**² 128 bits EPC; 96 bits TID
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range on metal**³ Up to 32.81 ft (10 m)
- **Read range off metal**³ Up to 26.25 ft (8 m)
- **Read range on gas cylinder**³ Up to 32.81 ft (10 m)
- **Polarization** Linear
- **Radiation pattern**



Key Features

- + **Durability:** Withstands pressure washdowns and UV-proof
- + **Long read range:** up to 10m for distance reading
- + **Flexible mounting:** adhesive, glue/epoxy, rivets, or zip ties
- + **Customization:** unique ID with durable printing or laser marking

Applications

- RTI management
- LPG and gas cylinder
- Production logistics
- Yard management
- Long-distance shipping

Environmental Specifications

Temperatures



- **Operational** -40°C to +85°C
-40°F to +185°F
- **Survival** -40°C to +85°C (48 hours)
-40°F to +185°F

- **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 20 years, based on chip operating under general environment conditions.

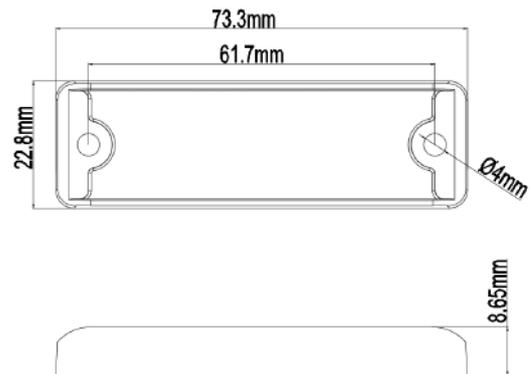
² EPC and User Memory can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.

³ Fix reader



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** 0.39 oz (11 g)



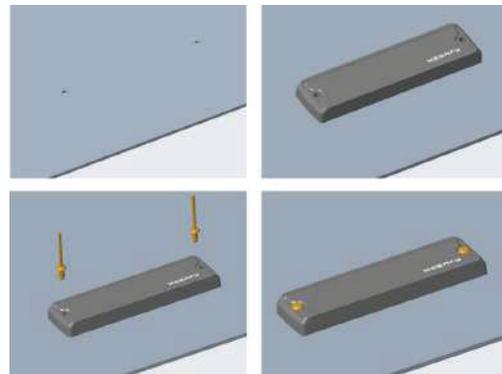
Mounting Systems

- Rivets
- Cable tie (optional)
- Epoxy (optional)
- Industrial adhesive (optional)

Installation Instructions

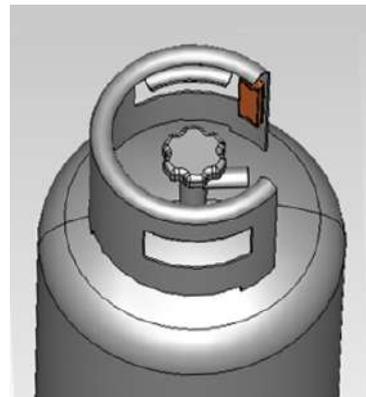
Use M3 rivets for RTI attachment:

1. Drill two holes (\varnothing 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.



Use glue/epoxy for LPG and gas cylinders attachment:

1. Select the suitable attachment location on the gas cylinder (usually inside the protection ring).
2. Clean the surface for rugged attachment.
3. Apply glue/epoxy resin evenly on the back of the RTI tag.
4. Place the tag vertically and tightly against the gas cylinder shroud mounting location.
5. Use tape to hold the tag ends in place until the glue/epoxy cures..
6. Remove the tape after 24 hours (the time depends on the glue/epoxy used)



¹Tolerance: +/- 0.02; +/- 0.50

Industry Compliance



Order Information

RTI OUTDOOR US: X0352-US100-U9xe

RTI OUTDOOR EU: X0352-EU100-U9xe

Customization Options

Encoding

Laser Marking

ATEX Certified Version

Printing

Industrial Adhesives

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