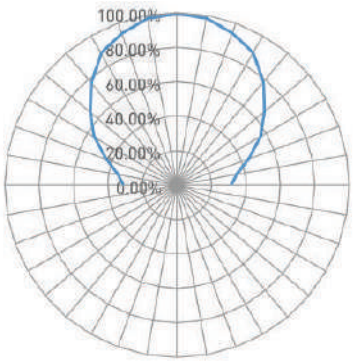
XS DOT

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 902–928 MHz (US);
  865–868 MHz (EU)
- **IC type** (chip)[1] NXP UCODE 9xm
- **Chip memory**[2] 128/496 bits EPC, 96 bits TID, 752/384 bits user memory
- **Write cycles** 100,000 times
- **Data retention** 20 years
- **Read range** fixed[3]
- Up to 13.12 ft (4 m) US
  Up to 9.84 ft (3 m) EU
- **Polarization** Linear
- **Radiation pattern on metal**



Key Features

+ **6 mm small:** fits small asset
+ **4 m read range:** superior performance-to-size ratio
+ **200°C:** withstand high temperatures
+ **IP68 rating:** waterproof

Applications

- **Hand tools and equipments**
- **MRO tool control**
- **Weapon management**

Environmental Specifications

Temperatures

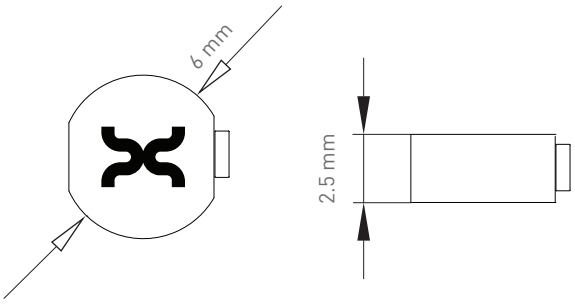
- Operational -40°C to +85°C
  -40°F to +185°F
- Survival -40°C to +150°C (168 hours)
  -40°F to +302°F
- Peak 200°C (392°F, minutes)

- **IP rating** IP68
- **Compression strength** 790 psi (5,447 kPa)
- **Shock** 3 ft (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 can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Performance based on standard testing methodologies. Performance may vary depending on environmental factors and reader output power.

Physical Specifications

- **Material** Ceramic
- **Dimensions (in)**[1] ø 0.24 x 0.10
- **Dimensions (mm)**[1] ø 6 x 2.50
- **Weight** 0.012 oz (0.34 g)



Mounting Systems

- Epoxy

Installation Instructions

To properly attach the XS Dot, the following steps should be taken:

1. Use instant glue to place the tag on the asset.

2. Cover the tag with epoxy resin to secure the tag in place. Using epoxy will both help secure the tag to the asset as well as help prevent damage from shock and impact.

[1] Tolerance: +/- 0.008; +/- 0.200

Industry Compliance

Order Information

XS Dot US: X4102-US000-U9xm	XS Dot EU: X4102-EU000-U9xm

Customization Options

Encoding	ATEX Certified Version

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