



## RFID tag for severe industrial environments

Identifying an object in arduous conditions is a major problem in industrial environments.

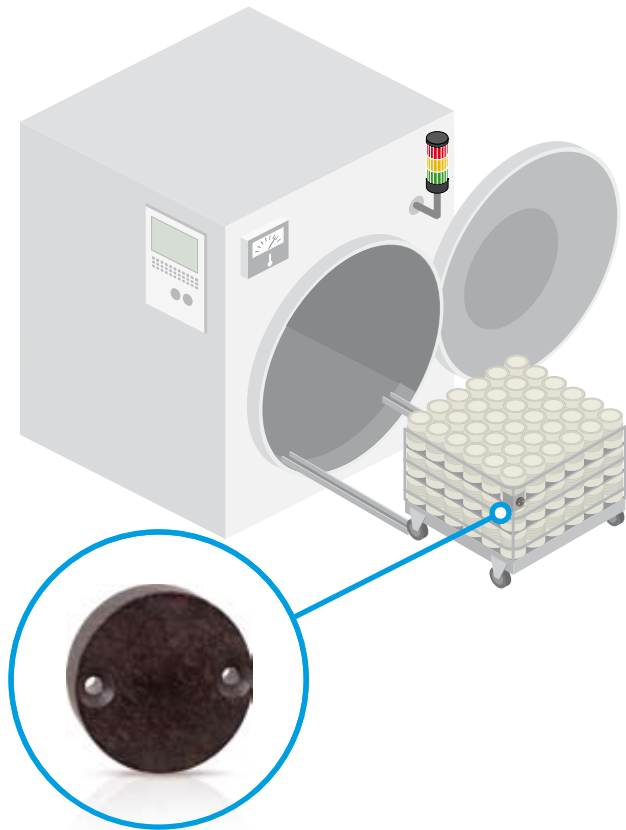
The new OsiSense™ XG RFID tag enables object traceability in severe industrial environments. It withstands high temperatures and aggressive chemical agents, as well as the high physical stress encountered in applications such as:

- > Injection presses (identification of moulds)
- > Full immersion or robotic assisted paint cycles
- > Surface treatment using particularly aggressive chemical processes
- > High pressure sterilizing autoclaves



**Telemecanique**

**Sensors**



## Benefits

### Robustness

- Traceability assured in processes involving high temperatures (up to 220 °C).
- The PPS case provides excellent resistance to solvents, chemical agents, and other lubricants used in severe environment industries.

### Compactness

Due to its small size, only 11 mm thick x 40 mm diameter, this tag can easily be inserted in or fixed on all types of supports, whether metal or not.

## Characteristics

### OsiSense XGHB411346 high temperature tag

- RFID frequency and protocol: 13.56 Mhz, ISO 15693
- Temperature withstand\*:
  - Operating: -25 °C to +90 °C
  - Storage: -25 °C to +120 °C
  - Up to 160 °C for 50 hours
  - Up to 220 °C in cycles
- Degree of protection: IP68
- Vibration resistance: 7 gn (29.5 to 150 Hz)
- Shock resistance: 30 g/11 ms – IK02
- Dimensions: Ø 40 x 11 mm
- Fixing by two Ø 4.2 mm holes
- Memory: EEPROM, 64 bytes
- Serial number (UID) on 16 bytes
- Maximum dialogue distance: 40 to 63 mm depending on smart antenna
- Mounting on metal support (dialogue distance decreased by 40%)
- Read time: 12 ms + 0.825 x n\*
- Write time: 20 ms + 11.8 x n\* (n = number of 16-bit words).

\* For temperatures above 130 degrees we recommend on-site verification testing before production use.

## Reference

High temperature RFID tag OsiSense **XGHB411346**

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