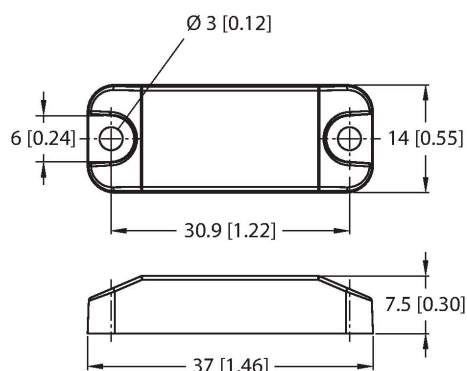


# TW865-868-Q14L37-M-HT-B112

## UHF Tag



### Features

- The high-temperature tags must undergo adequate stress tests within the proposed temperature processes before deployment. Otherwise, their durability cannot be guaranteed when exposed to temperatures outside the denoted range.
- EEPROM, memory 112 byte
- TID serial number: 8 byte
- For direct mounting on metal

### Functional principle

The UHF read/write heads form an air interface the size of which may vary, depending on the combination of read/write head and tag.

The read/write distances mentioned here only represent standard values measured under laboratory conditions and free from any influences caused by materials.

Attainable distances may vary due to component tolerances, mounting conditions, ambient conditions and material qualities, especially when mounted in metal.

Testing of the application under real operating conditions is therefore essential, especially with read/write on-the-fly!

### Technical data

|  |                                   |
|--|-----------------------------------|
| Type                                       | TW865-868-Q14L37-M-HT-B112        |
| ID   | 100004169                         |
| Remark to product                          | High-temperature                  |
| Data transfer                              | Alternating electromagnetic field |
| Technology                                 | UHF RFID                          |
| Region (UHF)                               | ETSI (865...868 MHz)              |
| Reading range on metal                     | 4 m (2W ERP)                      |
| Memory type                                | EEPROM                            |
| Chip                                       | Alien Higgs 3                     |
| Memory size                                | 112 Byte                          |
| Memory                                     | Read/Write                        |
| Freely usable memory                       | 64 Byte                           |
| EPC memory                                 | 12 byte                           |
| Number of read operations                  | unlimited                         |
| Number of write operations                 | 10 <sup>5</sup>                   |
| Typical read time                          | 2 ms/Byte                         |
| Typical write time                         | 3 ms/Byte                         |
| Radio communication and protocol standards | ISO 18000-63<br>EPCglobal Gen 2   |
| Temperature during read/write access       | -20...+85 °C                      |
| Temperature outside detection range        | -25...+85 °C                      |
|  | 235 °C, 1 × 700 h                 |
| Design                                     | Hard tag                          |
| Housing length                             | 14 mm                             |
| Housing width                              | 37 mm                             |

## Technical data

|                      |                    |
|----------------------|--------------------|
| Housing height       | 7.5 mm             |
| Active area material | Plastic, PPS, grey |
| Protection class     | IP68               |
| Packaging unit       | 1                  |