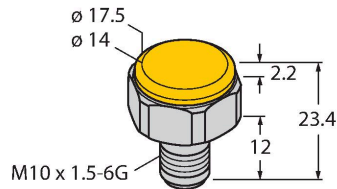


TW-BS10X1.5-19-K2

HF Tag



Features

- M10 bolt tag with yellow cap
- FRAM memory 2 kB
- Minimum 300 mounting cycles at 23 Nm
- Not compatible with pneumatic impact tools

Functional principle

The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone the size of which (0...500 mm) varies, depending on the combination of read/write head and tag used. The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials. The read/write distances of tags suitable for mounting in/on metal were determined in/on metal. Attainable distances may vary by up to 30 % 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 on-the-fly reading and writing!

Technical data

| | |
|---|---|
| Type | TW-BS10X1.5-19-K2 |
| ID | 6901380 |
| Remark to product | Threaded tag, can be screwed onto metal |
| Data transfer | Inductive coupling |
| Technology | HF RFID |
| Operating frequency | 13.56 MHz |
| Memory type | FRAM |
| Chip | Fujitsu MB89R118 |
| Memory | 2048 Byte |
| Memory | Read/Write |
| Freely usable memory | 2000 Byte |
| Number of read operations | unlimited |
| Number of write operations | 10 ¹⁰ |
| Typical read time | 0.5 ms/Byte |
| Typical write time | 0.5 ms/Byte |
| Radio communication and protocol standards | ISO 15693 NFC Typ 5 |
| Temperature during read/write access | -25...+85 °C |
| Temperature outside detection range | -45...+85 °C |
| Design | Hard tag with thread, BS10x1.5 |
| Diameter | 10 mm |
| Housing material | Metal, 1.7225 (AISI 4140) |
| Active area material | Plastic, PA6.6, yellow |
| Tightening torque | ≤ 23 Nm |
| Vibration resistance (EN 60068-2-6) | 10 g; 10...2000 Hz; 3 axes; 2.5 h |
| Continuous shock resistance (EN 60068-2-29) | 40 g, 18 ms, 6 axes, 2000 × |
| Protection class | IP67 |

Technical data

| | |
|----------------|-------|
| | IP69K |
| Packaging unit | 1 |