

Technical data sheet

Wireless mobile 2D-code reader

Part no.: 50144934

IT 1991i XR-3 USB-KIT

Contents




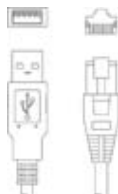
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Figure can vary



Set consists of

| | Quantity | Part no. | Designation | Article | Description |
|------------------------------------------------------------------------------------|----------|----------|-------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 1 | 50144935 | Base IT 1991i | Base station | Interface: PS/2, USB, RS 232 Bluetooth range: Class 1 Bluetooth version: 2.1 Connection 1: RJ41 Connection 2: Jack socket Connection 3: Bluetooth Drop height: 1.2 m Degree of protection: IP 51 |
|  | 1 | 50105384 | Battery IT-series | Battery | Supply voltage: 3.7 V, DC Battery technology: Lilon Battery storage capacity: 2.4 A·h |
|  | 1 | 50144930 | IT 1991i XR-3 | Wireless mobile 2D-code reader | |
|  | 1 | 50114521 | KB USB-1 IT190x | Interconnection cable | Suitable for interface: USB Connection 1: USB Connection 2: RJ41 Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC |

Technical data

Basic data

| | |
|--------|--------|
| Series | IT19xx |
|--------|--------|

Read data

| | |
|----------------------|-------------------|
| Code types, readable | 2/5 Interleaved |
| | Aztec |
| | Codabar |
| | Codablock |
| | Code 128 |
| | Code 39 |
| | Code 49 |
| | Code 93 |
| | Data Matrix Code |
| | EAN/UPC |
| | GS1 Databar |
| | Maxicode |
| | Micro PDF |
| | Others on request |
| | PDF417 |
| | QR code |
| | UPC |

Optical data

| | |
|-------------------------------|----------------|
| Reading distance | 0 ... 2,236 mm |
| Camera resolution, horizontal | 1,280 px |
| Camera resolution, vertical | 800 px |

Performance data

| | |
|--------------------------|-----------|
| Supply voltage U_B | 3.7 V, DC |
| Power consumption, max. | 1.8 W |
| Battery technology | Lilon |
| Battery storage capacity | 2.4 A·h |

Interface

| | |
|---------------|-------------------|
| Type | PS/2, RS 232, USB |
| RS 232 | |
| Function | Process |
| USB | |
| Function | Process |

Connection

| | |
|---------------------|-----------|
| Bluetooth range | Class 1 |
| Bluetooth version | 4.2 |
| Connection 1 | |
| Type of connection | Bluetooth |

Mechanical data

| | |
|-----------------------|-------------------------|
| Dimension (W x H x L) | 76 mm x 100 mm x 192 mm |
| Housing material | Plastic |
| Plastic housing | UL 94-V0 |
| Net weight | 405 g |

Technical data

Environmental data

| | |
|------------------------------------|----------------|
| Ambient temperature, operation | -20 ... 50 °C |
| Ambient temperature, storage | -40 ... 70 °C |
| Relative humidity (non-condensing) | 0 ... 95 % |
| Drop height | 3 m |
| Measurements relative to | Concrete floor |

Certifications

| | |
|----------------------|-------|
| Degree of protection | IP 65 |
| | IP 67 |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 84719000 |
| eCl@ss 5.1.4 | 27280103 |
| eCl@ss 8.0 | 27280103 |
| eCl@ss 9.0 | 27280103 |
| eCl@ss 10.0 | 27280103 |
| eCl@ss 11.0 | 27280103 |
| ETIM 5.0 | EC002999 |
| ETIM 6.0 | EC002999 |
| ETIM 7.0 | EC002999 |

Electrical connection

Connection 1

| | |
|--------------------|-------------------------|
| Function | Configuration interface |
| | Data interface |
| Type of connection | Bluetooth |

Diagrams

Typical reading behavior

| | A [mil] | B [mm] | C [mm] | D [mm] |
|------------------|---------|--------|--------|--------|
| Code 39 | 5 | 0,127 | 20 | 220 |
| | 20 | 0,508 | 0 | 2236 |
| | 100 | 2,54 | 50 | 10000 |
| UPC/EAN 13 | 13 | 0,33 | 0 | 1520 |
| PDF 417 | 6,7 | 0,169 | 20 | 209 |
| Data Matrix Code | 10 | 0,254 | 30 | 220 |
| QR Code | 20 | 0,508 | 33 | 484 |

A Module size [mil]
 B Modulus size [mm]
 C From [mm]

D To [mm]
 ATTENTION Please observe the note below
 ! regarding the reading distances.

Operation and display

| LED | Display | Meaning |
|-----|-----------------------|---------------------|
| 1 | Red, continuous light | Low battery level |
| | Green, 1x flashing | Reading successful |
| | Red, flashing | Communication error |

Notes



Observe intended use!



- ⚠ This product is not a safety sensor and is not intended as personnel protection.
- ⚠ The product may only be put into operation by competent persons.
- ⚠ Only use the product in accordance with its intended use.

Notes



WARNING! LASER RADIATION – CLASS 2 LASER PRODUCT



Do not stare into beam!

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of **laser class 2** as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- ⚠ Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time period, there is a risk of injury to the retina.
- ⚠ Do not point the laser beam of the device at persons!
- ⚠ Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- ⚠ When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- ⚠ CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- ⚠ Observe the applicable statutory and local laser protection regulations.
- ⚠ The device must not be tampered with and must not be changed in any way.
There are no user-serviceable parts inside the device.
Repairs must only be performed by Leuze electronic GmbH + Co. KG.

NOTE



Affix laser information and warning signs!

Laser information and warning signs are affixed to the device. In addition, self-adhesive laser information and warning signs (stick-on labels) are supplied in several languages.

- ⚠ Affix the laser information sheet to the device in the language appropriate for the place of use. When using the device in the US, use the stick-on label with the "Complies with 21 CFR 1040.10" note.
- ⚠ Affix the laser information and warning signs near the device if no signs are attached to the device (e.g. because the device is too small) or if the attached laser information and warning signs are concealed due to the installation position.
- ⚠ Affix the laser information and warning signs so that they are legible without exposing the reader to the laser radiation of the device or other optical radiation.


NOTE



- ⚠ Please notice that the real reading distances are also influenced by factors such as labeling material, printing quality, reading angle, printing contrast etc., and may thus deviate from the reading distances specified here.

Accessories

Connection technology - Connection unit

| | Part no. | Designation | Article | Description |
|------------------------------------------------------------------------------------|----------|--------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50112891 | MA 248i Profinet Gateway | Modular connection unit | Supply voltage: 18 ... 30 V Current consumption, max.: 300 mA Interface: PROFINET, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65 |

Accessories

Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|--|----------|---------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 50113397 | KB JST-HS-300 | Connection cable | Suitable for interface: RS 232 Connection 1: JST ZHR Connection 2: Sub-D, Axial, Male, 9 -pin Shielded: Yes Cable length: 300 mm Sheathing material: PUR |

Note



A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.