

# Technical data sheet Wireless mobile 2D-code reader

Part no.: 50144930

IT 1991i XR-3



#### Contents

- Technical data
- Electrical connection
- Diagrams
- Operation and display
- Notes
- Accessories





## **Technical data**



Basic data	
Series	IT19xx
Read data	
Code types, readable	2/5 Interleaved
	Aztec
	Codabar
	Code 128
	Code 39
	Code 93
	Composite Codes
	Data Matrix Code
	EAN 128
	EAN 8/13
	EAN Addendum
	GS1 Databar
	GS1 Databar Expanded
	GS1 Databar Limited
	GS1 Databar Omnidirectional
	GS1 Databar Stacked
	GS1 Databar Truncated
	Maxicode
	Micro PDF
	Micro QR
	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
Electrical data	
Performance data	
Supply voltage U <sub>B</sub>	3.7 V, DC
Power consumption, max.	1.8 W
Battery technology	Lilon
Battery storage capacity	2.4 A·h

5.ma	DC/2 DC 222 LICD
Гуре	PS/2, RS 232, USB
RS 232	
Function	Process
USB	B
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
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
	Concrete floor
Measurements relative to  Certifications  Degree of protection	Concrete floor
Certifications	
Certifications	IP 65
Certifications Degree of protection	IP 65
Certifications  Degree of protection  Classification	IP 65
	IP 65 IP 67
Certifications  Degree of protection  Classification  Customs tariff number	IP 65 IP 67 84719000
Certifications Degree of protection  Classification  Customs tariff number eCl@ss 8.0	IP 65 IP 67 84719000 27280103
Certifications Degree of protection  Classification  Customs tariff number eCl@ss 8.0 eCl@ss 9.0	IP 65 IP 67 84719000 27280103 27280103

EC002999

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# **Electrical connection**

#### **Connection 1**

Function	Configuration interface
	Data interface
Type of connection	Bluetooth

ETIM 5.0

ETIM 6.0

## **Diagrams**



### Typical reading behavior

	A [mil]	B [mm]	C [mm]	D [mm]
	5	0,127	20	220
Code 39	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.
- ♥ Only use the product in accordance with its intended use.



#### 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.

- Shever 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.
- b 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.
- Solution 
  Solution
- 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

#### **Notes**



#### 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

# Connection technology - Base stations

Part no.	Designation	Article	Description
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

# 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

## **Accessories**



# Replacement part

Part no.	Designation	Article	Description
50105384 **	Battery IT-series	Battery	Supply voltage: 3.7 V, DC Battery technology: Lilon Battery storage capacity: 2.4 A·h

<sup>\*\*</sup> Included in delivery contents

#### Note



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