



the sensor people





Figure can vary

Part no.: 50130495 IT 1981i FR-3 Wireless mobile 2D-code reader



8 Bluetooth

# Contents

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



### **Technical data**

Basic data	
Series	IT19xx
Read data	
Code types, readable	Micro PDF GS1 Databar Stacked EAN 128 UPC Others on request Composite Codes GS1 Databar Code 39 GS1 Databar Expanded Code 128 Code 93 EAN Addendum GS1 Databar Truncated EAN 8/13 GS1 Databar Omnidirectional QR code PDF417 2/5 Interleaved Aztec GS1 Databar Limited Data Matrix Code Maxicode Micro QR Codabar
Optical data	
Reading distance	100 16,000 mm
Performance data Supply voltage UB Power consumption, max. Battery technology Battery storage capacity	3.7 V, DC, 1.8 W Lilon 2 A·h
Interface	
Туре	PS/2, RS 232, USB
RS 232	
Function	Process
USB	
Function	Process
Connection	
Bluetooth range	Class 1
Bluetooth version	2.1
Connection 1	
Type of connection	Bluetooth
Mechanical data	
Dimension (W x H x L)	75 mm x 133 mm x 195 mm
Housing material	Plastic, UL 94-V0
Net weight	420 g



Environmental data		
Ambient temperature, operation	-20 50 °C	
Ambient temperature, storage	-40 70 °C	
Relative humidity (non-condensing)	0 95 %	
Drop height	2 m	
Measurements relative to	Concrete floor	

Certifications	
Degree of protection	IP 65

Classification	
Customs tariff number	84719000
eCl@ss 8.0	27280103
eCl@ss 9.0	27280103
ETIM 5.0	EC002999
ETIM 6.0	EC002999

### **Electrical connection**

Connection 1	
Type of connection	Bluetooth
Function	Data interface Configuration interface

### **Operation and display**

#### **LEDs**

	.ED	Display	Meaning
1	Normal operation	Red, continuous light	Low battery level
		Green, continuous light	Operational readiness
		Red, flashing	Communication error
		Green, 1x flashing	Reading successful



#### **Notes**

#### **WARNING! LASER RADIATION - LASER CLASS 2**

#### Never look directly into the 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.

#### **Accessories**

## Connection technology - Connection unit

Part no.	Designation	Article	Description
50112893	MA 204i Profibus Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: PROFIBUS DP, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65
50112892	MA 208i Ethernet Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: Ethernet, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



Part no.	Designation	Article	Description
50114154	MA 235i CANopen Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: CANopen, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65
50114155	MA 238i EtherCAT Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: EtherCAT, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65
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
50114156	MA 255i DeviceNet Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: RS 232, DeviceNet Connections: 6 Piece(s) Degree of protection: IP 67
50114157	MA 258i EtherNet/ IP Gateway	Modular connection unit	Supply voltage: 18 30 V Current consumption, max.: 300 mA Interface: EtherNet IP, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65

## Connection technology - Base stations

Part no.	Designation	Article	Description
50115738	Access Point f. IT	Base station	Interface: USB, RS 232 Bluetooth range: Class 2 Bluetooth version: 2.1 Connection 1: Bluetooth Connection 2: RJ41
50122431 *	Base f. IT 1911	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

<sup>\*</sup> Necessary accessories, please order separately

## Connection technology - Interconnection cables

Part	no. Designation	Article	Description
50128	KB 232-3 IT190x	Interconnection cable	Suitable for interface: RS 232, TTL Connection 1: Sub-D, Axial, Female, 9 -pin Connection 2: RJ41 Connection 3: Connector, Pluggable, Axial, Female, 2 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PVC



	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
0,1	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
	50114523	KB USB-2 IT190x	Interconnection cable	Suitable for interface: USB Connection 1: USB Connection 2: RJ41 Shielded: Yes Cable length: 5,000 mm Sheathing material: PVC

## Connection technology - Y distribution cables

Part no.	Designation	Article	Description
50114517	KB 232-1 IT190x	Interconnection cable	Suitable for interface: RS 232, TTL Connection 1: Sub-D, Axial, Female, 9 -pin Connection 2: RJ41 Connection 3: Connector, Pluggable, Axial, Female, 2 -pin Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC
50128800	KB 232-3 IT190x	Interconnection cable	Suitable for interface: RS 232, TTL Connection 1: Sub-D, Axial, Female, 9 -pin Connection 2: RJ41 Connection 3: Connector, Pluggable, Axial, Female, 2 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PVC
50114519	KB PS2-1 IT190x	Interconnection cable	Suitable for interface: PS/2 Connection 1: PS/2 Connection 2: RJ41, female Connection 3: PS/2 Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC

## Mounting technology - Other

	Part no.	Designation	Article	Description
444	50114494	BAT-Charger-4 Desk-EU	Charging station	Supply voltage: 100 240 V, AC Battery sockets: 4 Piece(s)
	50107034	BT Rope IT	Rope mounting bracket	Fastening, at system: Suspended (rope) Mounting bracket, at device: insertable Material: Plastic



	Part no.	Designation	Article	Description
And a	50128795	BT Stand 30 IT 191x	Mounting bracket	Functions: Activation of presentation mode Design of mounting device: Table foot Fastening, at system: Self-supporting Mounting bracket, at device: insertable Material: Plastic
~	50120444	BT Wallholder HS65x8	Wall mount	Design of mounting device: Wall mounting Fastening, at system: Through-hole mounting Mounting bracket, at device: insertable Material: Plastic

## Power supply units

1	Part no.	Designation	Article	Description
50		NT Base IT1911-EU		Type of power supply unit: Plug-in power supply unit Output: 5 V DC, 1 A Input: 110240 V AC, 5060 Hz

<sup>\*</sup> Necessary accessories, please order separately

## 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