SMART
SENSOR
BUSINESS

Leuze electronic

the sensor people

Figure can vary

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

IP 65

Bluetooth

Contents

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

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

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	100 ... 16,000 mm

Electrical data	
Performance data	
Supply voltage U_B	3.7 V , DC ,
Power consumption, max.	1.8 W
Battery technology	LiIon
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	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	
Function	Configuration interface Data interface
Type of connection	Bluetooth

Operation and display

LEDs

LED		**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

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.

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.

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
	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

* Necessary accessories, please order separately

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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

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
	50143603	IT 19x1i-End Cap	End cap	Type of fastening, at device: to engage

** Included in delivery contents

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