

## Technical data sheet Mobile 2D-code reader

Part no.: 50154422

IT 1960gSR-2USB-R

### Contents

- Set consists of
- Technical data
- Electrical connection
- Diagrams
- Operation and display
- Notes
- Accessories

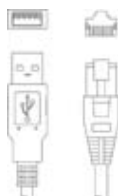


For illustration purposes only



## Set consists of

Quantity	Part no.	Designation	Article	Description
1	50154421	IT 1960gSR-2-R	Mobile 2D-code reader	
1	50114521	KB USB-1 IT190x	Interconnection cable	Suitable for interface: USB Connection 1: RJ41 Connection 2: USB Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC



## Technical data

### Basic data

Series	IT19xx
Contains	USB cable

### Read data

Code types, readable	2/5 Interleaved
	Aztec
	Codabar
	Code 128
	Code 39
	Code 93
	Composite Codes
	Data Matrix Code
	DotCode
	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 ... 1,115 mm
Camera resolution, horizontal	1,280 px
Camera resolution, vertical	1,080 px

### Electrical data

#### Performance data

Supply voltage $U_B$	4.4 ... 5.5 V, DC
Power consumption, max.	2.5 W

### Interface

Type	PS/2, RS 232, USB
<b>RS 232</b>	
Function	Process
<b>USB</b>	
Function	Process

### Connection

#### Connection 1

Type of connection	RJ41
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### Mechanical data

Dimension (W x H x L)	70 mm x 108 mm x 160 mm
Housing material	Plastic
Net weight	147 g

### Environmental data

Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-40 ... 70 °C
Relative humidity (non-condensing)	0 ... 95 %
Drop height	1.8 m
Measurements relative to	Concrete floor

### Certifications

Degree of protection	IP 52
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## Technical data

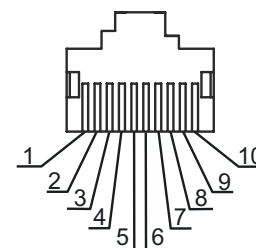
Customs tariff number	84719000
ECLASS 5.1.4	27280103
ECLASS 8.0	27280103
ECLASS 9.0	27280103
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ECLASS 11.0	27280103
ECLASS 12.0	27280103
ECLASS 13.0	27280103
ECLASS 14.0	27280103
ECLASS 15.0	27280103
ECLASS 16.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002999
ETIM 7.0	EC002999
ETIM 8.0	EC002999
ETIM 9.0	EC002999
ETIM 10.0	EC002999
UNSPSC 26.08	43211701

## Electrical connection

### Connection 1

Function	Configuration interface
Type of connection	RJ41

Pin	Pin assignment
1	Shield
2	Cable ID
3	GND
4	TxD RS 232 / n.c. USB
5	RxD RS 232 / n.c. USB
6	CTS RS 232 / n.c. USB
7	+5 V DC
8	RTS RS 232 / n.c. USB
9	n.c. RS 232 / Data + USB
10	n.c. RS 232 / Data - USB



# Diagrams

## Typical reading behavior

	A [mil]	B [mm]	C [mm]	D [mm]
Code 39	3	0,076	34	174
	5	0,127	23	311
	10	0,254	0	651
	20	0,508	4	1115
UPC	13	0,330	0	654
Code 128	7,5	0,191	6	367
	15	0,381	0	543
PDF 417	5	0,127	45	176
	6,7	0,170	22	229
Data Matrix Code	7,5	0,191	34	188
	10	0,254	12	273
QR-Code	10	0,254	11	262
	20	0,508	0	495

- A Module size [mil]
- B Modulus size [mm]
- C From [mm]
- D To [mm]

**ATTENTION !** 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.

## Operation and display

LED	Display	Meaning
1	Green, 1x flashing	Reading successful
	Red	No reading result


## Notes

**Observe intended use!**


	<ul style="list-style-type: none"> <li>⚠ This product is not a safety sensor and is not intended as personnel protection.</li> <li>⚠ The product may only be put into operation by competent persons.</li> <li>⚠ Only use the product in accordance with its intended use.</li> </ul>
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## Accessories

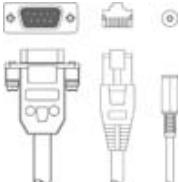
### Connection technology - Connection unit

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


### Connection technology - Interconnection cables

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

### 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: RJ41 Connection 2: Sub-D, Axial, Female, 9 -pin Connection 3: Connector, Pluggable, Axial, Female, 2 -pin Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC

### Mounting technology - Other

	Part no.	Designation	Article	Description
	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

#### Note



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