

## Technical data sheet

### Wireless mobile 2D-code reader

Part no.: 50154429

IT 2105ISR-3USB-CLHE

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For illustration purposes only



## Set consists of

|                                                                                                                                                                        | Quantity | Part no. | Designation      | Article                        | Description                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------------|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <br> | 1        | 50154428 | IT 2105ISR-3-CLE | Wireless mobile 2D-code reader |                                                                                                                                              |
|                                                                                                                                                                        | 1        | 50114521 | KB USB-1 IT190x  | Interconnection cable          | Suitable for interface: USB<br>Connection 1: RJ41<br>Connection 2: USB<br>Shielded: Yes<br>Cable length: 3,000 mm<br>Sheathing material: PVC |

## Technical data

### Basic data

|        |         |
|--------|---------|
| Series | IT 2105 |
|--------|---------|

### 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 ... 1,033 mm |
| Camera resolution, horizontal | 1,280 px       |
| Camera resolution, vertical   | 1,080 px       |

### Electrical data

#### Performance data

|                          |           |
|--------------------------|-----------|
| Supply voltage $U_B$     | 3.7 V, DC |
| Power consumption, max.  | 1.8 W     |
| Battery technology       | Lilon     |
| Battery storage capacity | 3.3 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 139.5 mm x 194.8 mm |
| Housing material      | Plastic                     |
| Plastic housing       | UL 94-V0                    |
| Net weight            | 425 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 |

### Certifications

|                      |       |
|----------------------|-------|
| Degree of protection | IP 65 |
|                      | IP 68 |

Technical data

|                       |          |
|-----------------------|----------|
| Customs tariff number | 84719000 |
| ECLASS 5.1.4          | 27280103 |
| ECLASS 8.0            | 27280103 |
| ECLASS 9.0            | 27280103 |
| ECLASS 10.0           | 27280103 |
| 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 |

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  | 10     | 269    |
| Code 128         | 10      | 0,254  | 0      | 531    |
| UPC/EAN13        | 13      | 0,330  | 0      | 634    |
| Code 128         | 20      | 0,508  | 0      | 1033   |
| PDF 417          | 6,7     | 0,169  | 14     | 243    |
| Data Matrix Code | 10      | 0,254  | 5      | 261    |
| QR-Code          | 20      | 0,508  | 0      | 480    |

- 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.

### 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, DC<br>Current consumption, max.: 300 mA<br>Interface: RS 232, PROFINET<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |

### Connection technology - Interconnection cables

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