

Technical data sheet

Mobile 2D-code reader

Part no.: 50154426
IT 2100ISR-3E



For illustration purposes only

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Technical data

Basic data

Series	IT 2100
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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 ... 1,033 mm
Camera resolution, horizontal	1,280 px
Camera resolution, vertical	1,080 px

Electrical data

Performance data

Supply voltage U_B	4 ... 5.5 V, DC
Power consumption, max.	2.35 W

Interface

Type	PS/2, RS 232, USB
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RS 232

Function	Process
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USB

Function	Process
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Connection

Connection 1

Type of connection	RJ41
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Mechanical data

Dimension (W x H x L)	75.8 mm x 139.5 mm x 194.8 mm
Housing material	Plastic
Plastic housing	UL 94-V0
Net weight	330 g

Environmental data

Ambient temperature, operation	-30 ... 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

Classification

Customs tariff number	84719000
ECLASS 5.1.4	27280101
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
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	RJ41

Electrical connection

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]	A	Module size [mil]
Code 39	5	0,127	10	269	B	Modulus size [mm]
Code 128	10	0,254	0	531	C	From [mm]
UPC/EAN13	13	0,330	0	634	D	To [mm]
Code 128	20	0,508	0	1033	ATTENTION	Please observe the note below regarding the reading distances.
PDF 417	6,7	0,169	14	243	!	
Data Matrix Code	10	0,254	5	261		
QR-Code	20	0,508	0	480		

Operation and display

LED	Display	Meaning
1	Normal operation	Green, 1x flashing
		Red, continuous light
		Reading successful
		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

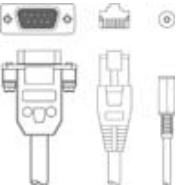
Connection technology - Connection unit

	Part no.	Designation	Article	Description
	50112891	MA 248i Profinet Gateway	Modular connection unit	Supply voltage: 18 ... 30 V Current consumption, max.: 300 mA Interface: PROFINET, RS 232 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	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
	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

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.