Technical data sheet Mobile 2D-code reader

Part no.: 50144928 IT 1990i XR-3







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Technical data

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Basic data		USB	
Series	IT19xx	Function	Process
Read data		Connection	
Code types, readable	2/5 Interleaved	_	
31,	Aztec	Connection 1	5144
	Codabar	Type of connection	RJ41
	Code 128	Mechanical data	
	Code 39		
	Code 93	Dimension (W x H x L)	76 mm x 100 mm x 192 mm
	Composite Codes	Housing material	Plastic
	Data Matrix Code	Plastic housing	UL 94-V0
	EAN 128	Net weight	320 g
	EAN 8/13	Environmental data	
	EAN Addendum	Environmental data	
	GS1 Databar	Ambient temperature, operation	-30 50 °C
	GS1 Databar Expanded	Ambient temperature, storage	-40 70 °C
	GS1 Databar Limited	Relative humidity (non-condensing)	0 95 %
	GS1 Databar Omnidirectional	Drop height	3 m
	GS1 Databar Stacked	Measurements relative to	Concrete floor
	GS1 Databar Truncated		
	Maxicode	Certifications	
	Micro PDF	Degree of protection	IP 65
	Micro QR		IP 67
	Others on request		
	PDF417	Classification	
	QR code	Customs tariff number	84719000
	UPC	ECLASS 5.1.4	27280101
		ECLASS 8.0	27280103
Optical data		ECLASS 9.0	27280103
Reading distance	0 2,236 mm	ECLASS 10.0	27280103
Camera resolution, horizontal	1,280 px	ECLASS 11.0	27280103
Camera resolution, vertical	800 px	ECLASS 12.0	27280103
	000 pX	ECLASS 13.0	27280103
Electrical data		ECLASS 14.0	27280103
		ETIM 5.0	EC002550
Performance data		ETIM 6.0	EC002999
Supply voltage U _B	4 5.5 V, DC	ETIM 7.0	EC002999
Power consumption, max.	2.35 W	ETIM 8.0	EC002999
		ETIM 9.0	EC002999
Interface			
Туре	PS/2, RS 232, USB		
RS 232			
Function	Process		

Electrical connection

Connection 1

Function

Type of connection

Configuration interface Data interface RJ41

Electrical connection

in	Pin assignment
	Shield
	Cable ID
	GND
	TxD RS 232 / n.c. USB
	RxD RS 232 / n.c. USB
	CTS RS 232 / n.c. USB
	+5 V DC
	RTS RS 232 / n.c. USB
	n.c. RS 232 / Data + USB
)	n.c. RS 232 / Data - USB
)	n.c. RS 232 / Data + USB

Diagrams

Typical reading behavior

	A [mil]	B [mm]	C [mm]	D [mm]
	5	0,127	20	220
Code 39	20	0,508	0	2236
	100	2,54	50	10000
UPC/EAN 13	13	0,33	0	1520
PDF 417	6,7	0,169	20	209
Data Matrix Code	10	0,254	30	220
QR Code	20	0,508	33	484

A Module size [mil] B Modulus size [mm]

C From [mm]

D To [mm]

ATTENTION Please observe the note below ! regarding the reading distances.

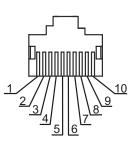
Operation and display

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

Notes

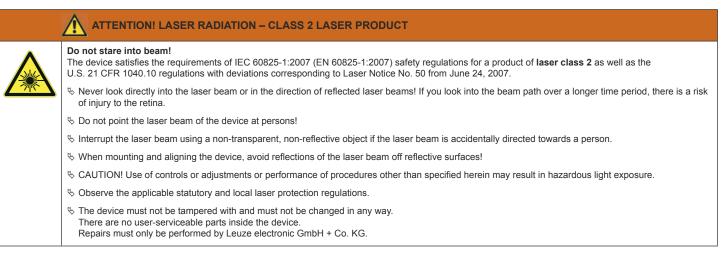
Observe intended use!
Image: Second

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Notes

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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.
- S 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.
- 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.

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

Accessories

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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 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



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