

Technical data sheet Mobile 2D-code reader

Part no.: 50138136

IT 1920i DPM-3



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Technical data



Basic data		Connection 1		
Series	IT19xx	Type of connection	RJ41	
Read data		Mechanical data		
Code types, readable	2/5 Interleaved	Dimension (W x H x L)	74.5 mm x 193 mm x 134 mm	
Tode types, readable	Codabar	Housing material	Plastic	
	Code 39	Plastic housing	PC-ABS	
	Code 93	Net weight	310 g	
	Data Matrix Code			
	Directly-marked 2D-codes	Environmental data		
	EAN 8/13	Ambient temperature, operation	-30 50 °C	
	GS1 Databar	Ambient temperature, storage	-40 70 °C	
	Micro PDF	Relative humidity (non-condensing)	0 95 %	
	Micro QR	Drop height	2 m	
	Others on request	Measurements relative to	Concrete floor	
	PDF417			
	QR code	Certifications		
	UPC	Degree of protection	IP 65	
Optical data		Classification		
Reading distance	0 170 mm	Customs tariff number	84719000	
Light source	LED	ECLASS 5.1.4	27280103	
LED group	1	ECLASS 8.0	27280103	
Camera resolution, horizontal	844 px	ECLASS 9.0	27280103	
Camera resolution, vertical	640 px	ECLASS 10.0	27280103	
Bar code contrast (PCS)	25 %	ECLASS 11.0	27280103	
Modulus size	0.076 0.508 mm	ECLASS 12.0	27280103	
Alignment aid	Laser, red	ECLASS 13.0	27280103	
Light wavelength	650 nm	ECLASS 14.0	27280103	
		ECLASS 15.0	27280103	
Electrical data		ETIM 5.0	EC002550	
		ETIM 6.0	EC002999	
Performance data		ETIM 7.0	EC002999	
Supply voltage U _B	4 5.5 V, DC	ETIM 8.0	EC002999	
Power consumption, max.	2.35 W	ETIM 9.0	EC002999	
Interfess		ETIM 10.0	EC002999	
Interface				
Туре	PS/2, RS 232, USB			
RS 232				
Function	Process			
USB				

Electrical connection

Connection 1

Function

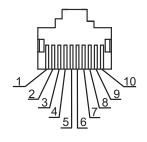
Function	Configuration interface
	Data interface
	Voltage supply
Type of connection	RJ41

Process

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

Reading field

	A [mil]	B [mm]	C [mm]	D [mm]
	3	0,076	27,9	40,6
Code 39	5	0,127	0	88,9
Code 39	7,5	0,191	0	137,2
	20	0,508	27,9	233,7
UPC/EAN 13	13 (100%)	0,330	20,3	157,5
	6,67	0,169	0	94,0
PDF 417	10	0,254	0	114,3
	15	0,381	0	142,2
	4	0,102	25,4	53,3
Data Matrix Code	5	0,127	10,2	68,6
Data Matrix Gode	7,5	0,191	0	88,9
	10	0,254	0	111,8
	4	0,102	27,9	35,6
QR Code	5	0,127	12,7	55,9
վո Ն ՍԱԵ	7,5	0,191	0	83,8
	10	0,254	0	101,6

Α Module size [mil]

В Modulus size [mm]

С From [mm]

D To [mm]

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.

Operation and display

LED Displa		Display	Meaning
1	Normal	Red, 1x flashing	Reading successful
	operation	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.



ATTENTION! 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.
- b 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! The use of operating and adjusting devices other than those specified here or the carrying out of differing procedures may lead to dangerous exposure to radiation!
- because 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

- "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

Accessories

Connection technology - Connection unit

Part no. Designation **Article** 50112893 MA 204i Profibus Modular connection Gateway unit

Supply voltage: 18 ... 30 V Current consumption, max.: 300 mA Interface: PROFIBUS DP, RS 232 Connections: 6 Piece(s) Degree of protection: IP 65

Description

Leuze electronic GmbH + Co. KG The Sensor People In der Braike 1, D-73277 Owen/Germany Phone: +49 7021 573-0 • Fax: +49 7021 573-199 eng • 2025-04-06

info@leuze.com • www.leuze.com

We reserve the right to make technical changes

Accessories



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

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.