



the sensor people





Figure can vary

Part no.: 50138136 IT 1920i DPM-3 Mobile 2D-code reader



Contents

- Technical data
- · Electrical connection
- Diagrams
- · Operation and display
- Notes
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Technical data

Read data		
Code types, readable	Basic data	
Code types, readable	Series	IT19xx
Code types, readable		
Codabar Coda 93	Read data	
Reading distance 0 170 mm Light source LED LED group 1 Camera resolution, horizontal 844 px Camera resolution, vertical 640 px Bar code contrast (PCS) 25 % Modulus size 0.076 0.508 mm Alignment aid Laser, red Light wavelength 650 nm Electrical date Performance date 3 Supply voltage UB 4 5.5 V , DC Power consumption, max 2.35 W Interface Type PS/2 , RS 232 , USB RS 232 Function Process Connection Connection Connection RJ41 Mechanical data Dimension (W x H x L) Type of connection RJ41 Mechanical data Dimension (W x H x L) Plastic , PC-ABS	Code types, readable	Codabar Code 39 Code 93 Data Matrix Code Directly-marked 2D-codes EAN 8/13 GS1 Databar Micro PDF Micro QR Others on request PDF417 QR code
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Function Process USB Process Function Process Connection Connection RJ41 Mechanical data Dimension (W x H x L) 74.5 mm x 193 mm x 134 mm Housing material Plastic , PC-ABS	Туре	PS/2 , RS 232 , USB
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Dimension (W x H x L) 74.5 mm x 193 mm x 134 mm Housing material Plastic , PC-ABS	Type of connection	RJ41
Dimension (W x H x L) 74.5 mm x 193 mm x 134 mm Housing material Plastic , PC-ABS		
Housing material Plastic , PC-ABS		
Net weight 310 g		
	Net weight	310 g



Ambient temperature, operation	-30 50 °C
Ambient temperature, storage	-40 70 °C
Relative humidity (non-condensing)	0 95 %
Drop height	2 m
Measurements relative to	Concrete floor

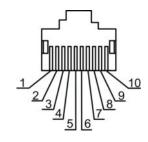
Certifications	
Degree of protection	IP 65

Classification	
Customs tariff number	84719000
eCl@ss 8.0	27280103
eCl@ss 9.0	27280103
ETIM 5.0	EC002999
ETIM 6.0	EC002999

Electrical connection

Connection 1	
Type of connection	RJ41
Function	Configuration interface Data interface Voltage supply

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
un code	7,5	0,191	0	83,8
	10	0,254	0	101,6

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

From [mm]

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 NOTE

specified here.

Operation and display

LEDs

L	ED	Display	Meaning
1	Normal operation		Reading successful
		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.



WARNING! LASER RADIATION - LASER CLASS 2

Never look directly into the 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.
- · 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! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- Observe 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 several languages.

- 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 radiation.

Accessories

Connection technology - Connection unit

	Part no.	Designation	Article	Description
50			connection 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

Connection technology - Interconnection cables

Part n	Designation	Article	Description
5011338	7 KB JST-HS-300	Connection 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

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



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: Sub-D, Axial, Female, 9 -pin Connection 2: RJ41 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

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