

Technical data sheet

Stationary 2D-code reader

Part no.: 50135000
DCR50M2/R2



For illustration purposes only

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Notes
- Accessories



Technical data

Basic data

Series	DCR 50
Chip	CMOS (Rolling Shutter)

Special version

Special version	Scan Engine Module
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Functions

Software functions	Reading of 1D codes
	Reading of 2D codes

Read data

Code types, readable	2/5 Interleaved
	Australian Post
	Aztec
	Canada Post
	Codabar
	Codablock F
	Code 11
	Code 128
	Code 32
	Code 39
	Code 49
	Code 93
	Data Matrix Code
	EAN/UPC
	GS1 Composite
	GS1 Databar
	Intelligent Mail
	Japan Post
	KIX Code
	Korea Post
	Maxicode
	Micro PDF
	Micro QR
	MSI Plessey
	PDF417
	Pharma Code
	Planet
	Postnet
	QR code
	Telepen
	UK Royal Mail
	UPU ID Tags

Optical data

Reading distance	30 ... 425 mm
Camera resolution, horizontal	1,280 px
Camera resolution, vertical	960 px
Modulus size	0.127 ... 0.528 mm

Electrical data

Performance data

Supply voltage U_B	4.75 ... 5.25 V, DC
Current consumption, max.	300 mA

Inputs

Number of digital switching inputs	1 Piece(s)
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Switching inputs

Type	Digital switching input
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Outputs

Number of digital switching outputs	1 Piece(s)
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Switching outputs

Type	Digital switching output
Voltage type	DC
Switching current, max.	20 mA

Switching output 1

Switching element	Transistor, NPN
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Interface

Type	RS 232
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RS 232

Function	Process
Transmission speed	9,600 ... 115,200 Bd
Data format	Adjustable

Connection

Number of connections	1 Piece(s)
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Connection 1

Function	Configuration interface
	Data interface
	Signal IN
	Signal OUT
	Voltage supply
Type of connection	Molex connector 53261-0671
No. of pins	6 -pin
Type	Male

Mechanical data

Design	Cubic
Dimension (W x H x L)	31.6 mm x 12.7 mm x 27.5 mm
Housing material	Metal
	Plastic
Net weight	10 g
Housing color	Silver
Type of fastening	M2,5 mounting tabs

Operation and display

Type of display	LED
Type of configuration	Software

Environmental data

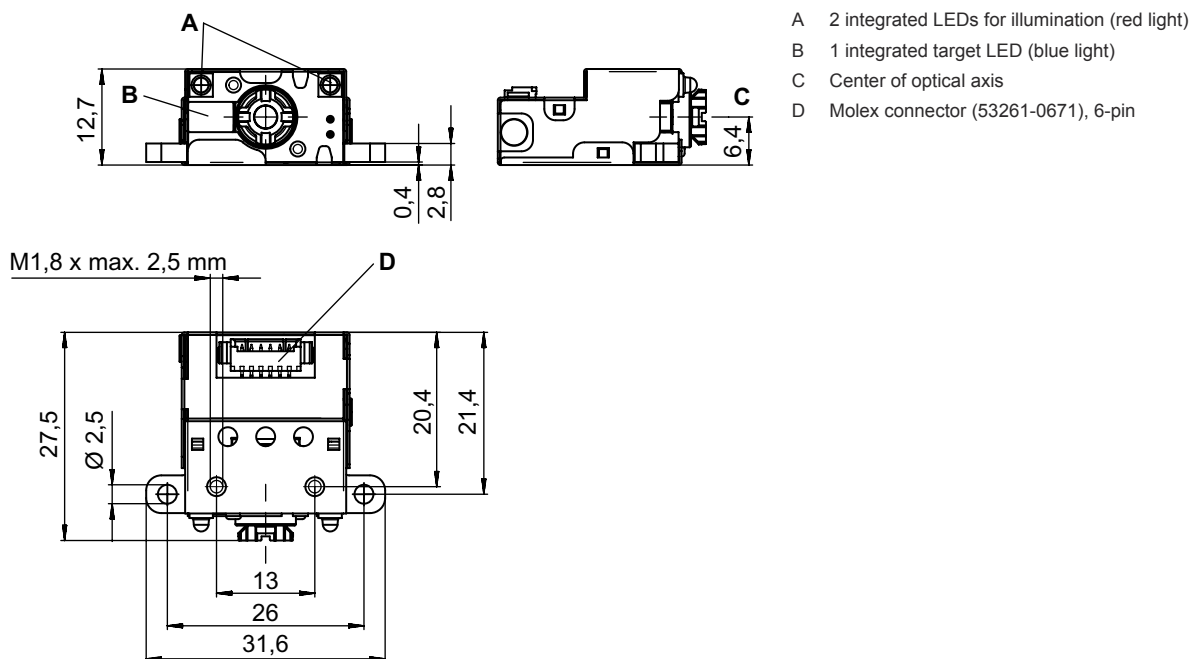
Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	10 ... 90 %

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
ETIM 5.0	EC002550
ETIM 6.0	EC002999
ETIM 7.0	EC002999
ETIM 8.0	EC002999
ETIM 9.0	EC002999
ETIM 10.0	EC002999

Dimensioned drawings

All dimensions in millimeters



Electrical connection

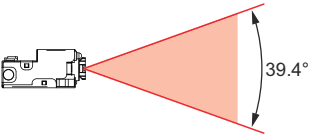
Connection 1

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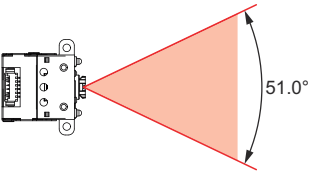
Pin	Pin assignment
1	V+
2	GND
3	Trigger IN
4	Good read OUT
5	RS 232 TxD
6	RS 232 RxD

Diagrams

Vertical opening angle reading field



Horizontal opening angle reading field



Reading fields

①	②
Code 39 0,190mm (7,5mil)	50 (2,0) 245 (9,6)
GS1 Databar/ 0,267mm (10,5mil)	35 (1,4) 225 (8,9)
UPQ 0,330mm (13mil)	40 (1,5) 370 (14,6)
PDF417 0,147mm (5,8mil)	85 (3,3) 155 (6,1)
PDF417 0,170mm (6,7mil)	65 (2,6) 175 (6,9)
Data Matrix/ 0,127mm (5mil)	75 (3,0) 90 (3,5)
Data Matrix/ 0,160mm (6,3mil)	70 (2,8) 135 (5,3)
Data Matrix/ 0,254mm (10mil)	50 (2,0) 205 (8,1)
Data Matrix/ 0,528mm (20,8mil)	30 (1,2) 425 (16,7)

- 1 Code type / resolution [m]
- 2 Typical reading distance [mm] ([inch])

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.

Accessories

Start-up/diagnosis

	Part no.	Designation	Article	Description
	50128204	MA-CR	Module	Description: Adapter circuit board for laboratory and test purposes Type of interface: RS 232

Note



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