

Technical data sheet Stationary 2D-code reader

Part no.: 50135000

DCR50M2/R2

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For illustration purposes only



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
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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
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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

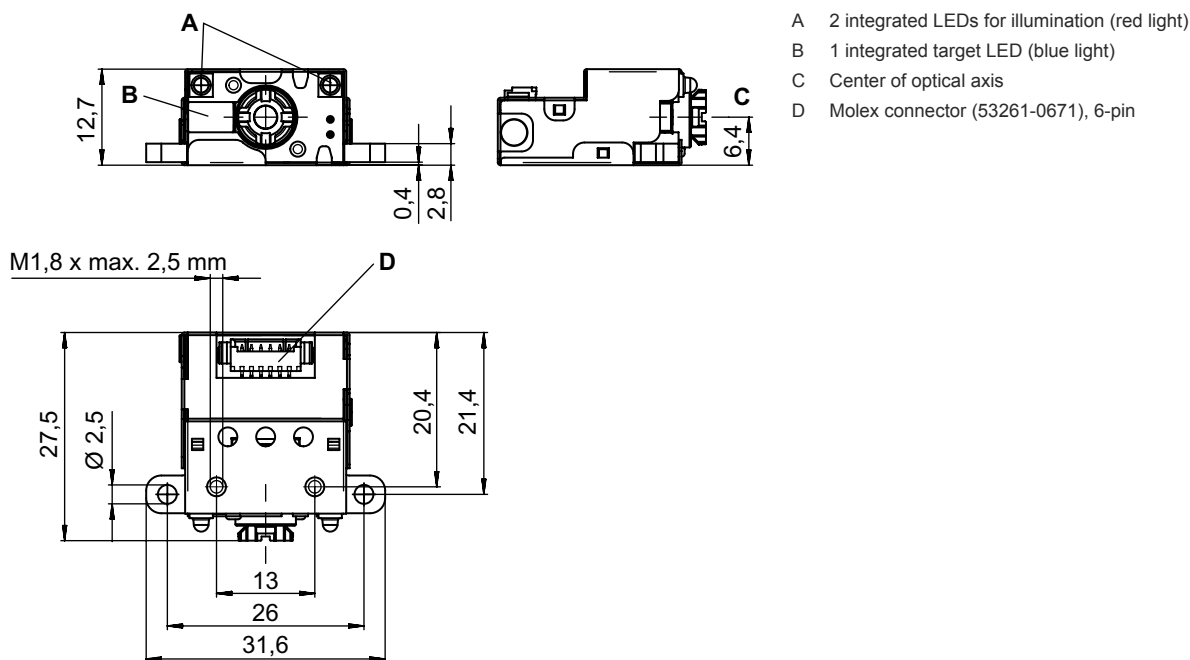
Ambient temperature, operation	0 ... 50 °C
Ambient temperature, storage	-20 ... 60 °C
Relative humidity (non-condensing)	10 ... 90 %

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
ECLASS 16.0	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
UNSPSC 26.08	43211701

Dimensioned drawings

All dimensions in millimeters



Electrical connection

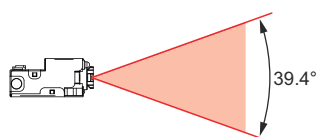
Connection 1

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

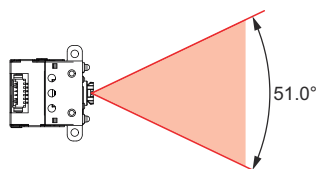
Pin	Pin assignment
1	V+
2	GND
3	Trigger IN
4	Good read OUT
5	RS 232 TxD
6	RS 232 RxD

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!	
	<ul style="list-style-type: none"> ⌘ 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	
	<ul style="list-style-type: none"> ⌘ A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.