



the sensor people





Part no.: 50141799 DCR 248i FIX-U2-102-I3-G Stationary 2D-code reader









Ethernet



Figure can vary

Contents

- Technical data
- Dimensioned drawings
- · Electrical connection
- Diagrams
- Operation and display
- · Part number code
- Notes
- Accessories



Technical data

Basic data	
Series	DCR 200i
Chip	CMOS
Functions	
Software functions	Reading of 1D codes Reading of 2D codes
Read data	
Code types, readable	2/5 Interleaved
Code types, readable	Aztec
	Codabar Code 128
	Code 32
	Code 39 Code 93
	Data Matrix Code
	EAN 128 EAN 8/13
	GS1 Databar
	GS1 Databar Omnidirectional GS1 Databar QR code
	GS1 Databar Stacked
	PDF417 Pharma Code
	QR code
	UPC
	UPC
Optical data	
Reading distance	40 75 mm
Reading distance Light source	40 75 mm LED , Infrared
Reading distance Light source Transmitted-signal shape	40 75 mm LED , Infrared Pulsed
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal	40 75 mm LED , Infrared Pulsed 1,280 px
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical	40 75 mm LED , Infrared Pulsed 1,280 px 960 px
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm
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Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type Electrical data Protective circuit Performance data	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms Monochrome Polarity reversal protection Short circuit protected
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type Electrical data Protective circuit	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms Monochrome
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Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type Electrical data Protective circuit Performance data Supply voltage UB Average power consumption Inputs	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms Monochrome Polarity reversal protection Short circuit protected 18 30 V , DC 8 W
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type Electrical data Protective circuit Performance data Supply voltage UB Average power consumption	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms Monochrome Polarity reversal protection Short circuit protected
Reading distance Light source Transmitted-signal shape Camera resolution, horizontal Camera resolution, vertical Modulus size Electronic shutter speed Camera type Electrical data Protective circuit Performance data Supply voltage UB Average power consumption Inputs	40 75 mm LED , Infrared Pulsed 1,280 px 960 px 0.1 0.25 mm 0.068 5 ms Monochrome Polarity reversal protection Short circuit protected 18 30 V , DC 8 W



Number of digital switching outputs	1 Piece(s)	
Switching outputs		
Voltage type	DC	
Switching current, max.	100 mA	
Switching output 1		
Switching element	MOSFET semiconductor ,	
Switching principle	+24 V switching	
Inputs/outputs selectable		
Number of inputs/outputs selectable	2 Piece(s)	
Voltage type, outputs	DC	
Voltage type, inputs	DC	
terface		
pe	RS 232 , RS 422 , Ethernet , PROFINET	
RS 232		
Function	Process	
Transmission speed	4,800 115,200 Bd	
Data format	Adjustable	
Start bit	1	
Data bit	8 data bits	
Stop bit	1 stop bit	
Parity	None	
Transmission protocol	<stx><data><cr><lf></lf></cr></data></stx>	
Data encoding	ASCII Binary	
RS 422		
Function	Process	
Transmission speed	4,800 115,200 Bd	
Data format	Adjustable	
Start bit	1	
Data bit	7, 8 data bits	
Stop bit	1, 2 stop bits	
Parity	Adjustable	
Transmission protocol	Adjustable	
Data encoding	ASCII Binary	
Ethernet		
Architecture	Client Server	
Address assignment	DHCP Manual address assignment	
Transmission speed	10 / 100 Mbit/s	
Function	Process	
Switch functionality	None	
Transmission protocol	TCP/IP, UDP	
Profinet		
Function	Process	
Conformance class	В	
Protocol	PROFINET RT	



Ethernet	Service interface	
Ethernet Function Connection Number of connections 2 Piece(s) Connection Pruction Data introduce Signal IVI Signal OUT Voltage supply Type of connection Connector Thread size Mate Metal No. of pins 12 - pin Encoding A-coded Connector Type of connection Configuration interface Data interface Connector Type of connection Connector Configuration interface Data inte		Ethernet
Princition Service		
Connection Number of connections Connection 1 Function		Service
Number of connections 2 Piece(s)		33.113
Number of connections 2 Piece(s)	Connection	
Connection 1		2 Piece(s)
Function Data interface Signal IN S		
Signal NOUT Signal OUT Signal OUT Voltage supply Type of connection Thread size M12 Type Mate Material No. of pins 12 - pin Encoding A-coded Connection 2 Function Configuration interface Data interface Type of connection Thread size M12 Type of connection Connection Thread size M12 Type of connection Thread size M12 Type Female Material No. of pins 4 - pin Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Plastic, Discast aluminum, PC Housing color Type of fastening Mounting thread Was optional mounting device Operation and display Type of display LED Number of LEDs 10 Plece(s) Putton of the operational control Adjustment mode Auto-setup Trigger Environmental data Design Out- Department of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation O 45 °C		Data interface
Thread size	T different	Signal IN Signal OUT
Material Metal	Type of connection	Connector
Material Metal No. of pins 12 -pin Encoding A-coded Connection 2 Function Connector Type of connector Thread size M12 Type Female Material Metal No. of pins 4-pin Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Metal Metal Metal Metal Metal Metal Nous pins Glass Dimension (W x H x L) 43 mm x 61 mm x 44 mm Metal Plastic, Discast aluminum , PC Using material Glass Net weight 120 g Housing color Silver Type of display LED Operation and display Type of configuration Cubic Configuration codes Tasch-in Via web browser Department of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Thread size	M12
No. of pins 12 - pin Encoding A-coded Connection 2 Function Connection Connector Type of connection Connector Thread size M12 Type Female Material Metal No. of pins 4 - pin Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Glass Netweight 120 g Housing color Silver Type of fastering Mounting thread Via optional mounting device Operation and display ED Type of configuration Configuration Configuration codes Each-in Via web browser Configuration of the operational control Adjustment mode Auto-setup Trigger Environmental data Environmental data Configuration Configuration of the operational control Adjustment mode Auto-setup Trigger Environmental data Environmen	Туре	Male
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Function Configuration interface Data interface Type of connection Thread size M12 Type Female Material Metal No. of pins 4-pin Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Metal Not weight 120 g Housing material Glass Net weight 120 g Housing color Siliver Type of fastening Mounting thread Via optional mounting device Operation and display Type of configuration Configuration Operational controls Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Data interface Data inte		
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Type Female Material Metal No. of pins 4 - pin Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Plastic , Discast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Configuration Codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Type of connection	Connector
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No. of pins Encoding D-coded Mechanical data Design Cubic Dimension (W x H x L) Housing material Housing material Celass Net weight Housing color Type of fastening Menumber of LEDs Type of configuration codes Teach-in Via web browser Coperational controls Button(s) Function of the operational control Environmental data Ambient temperature, operation Cubic Cubi	Туре	Female
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Mechanical data Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Metal Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	No. of pins	4 -pin
Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Metal Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Encoding	D-coded
Design Cubic Dimension (W x H x L) 43 mm x 61 mm x 44 mm Housing material Metal Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C		
Dimension (W x H x L) Housing material Housing material Metal Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Mechanical data	
Housing material Metal Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation O 45 °C	Design	Cubic
Plastic , Diecast aluminum , PC Lens cover material Glass Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration Configuration Configuration Silver Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Dimension (W x H x L)	43 mm x 61 mm x 44 mm
Net weight 120 g Housing color Silver Type of fastening Mounting thread Via optional mounting device **Tope of fastening Via optional mounting device **Tope of display LED Number of LEDs 10 Piece(s) Type of configuration Codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger **Environmental data** Ambient temperature, operation 0 45 °C	Housing material	
Housing color Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation Silver Mounting thread Via optional evice	Lens cover material	Glass
Type of fastening Mounting thread Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation Mounting thread Via optional mounting device Mounting thread Via optional mounting device	Net weight	120 g
Via optional mounting device Operation and display Type of display LED Number of LEDs 10 Piece(s) Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation Operational mounting device LED Adjustment modes Auto-setup Trigger	Housing color	Silver
Type of display Number of LEDs 10 Piece(s) Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Type of fastening	Mounting thread Via optional mounting device
Number of LEDs Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 10 Piece(s) Configuration codes Teach-in Via web browser Button(s) Adjustment mode Auto-setup Trigger	Operation and display	
Type of configuration Configuration codes Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation O 45 °C	Type of display	LED
Teach-in Via web browser Operational controls Button(s) Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation 0 45 °C	Number of LEDs	10 Piece(s)
Function of the operational control Adjustment mode Auto-setup Trigger Environmental data Ambient temperature, operation Adjustment mode Auto-setup Trigger	Type of configuration	Teach-in
Auto-setup Trigger Environmental data Ambient temperature, operation O 45 °C	Operational controls	Button(s)
Ambient temperature, operation 0 45 °C	Function of the operational control	Auto-setup
Ambient temperature, operation 0 45 °C	Fusing annual data	
		0.45.90
Ambient temperature, storage -20 70 °C		
	Ambient temperature, storage	-20 70 °C



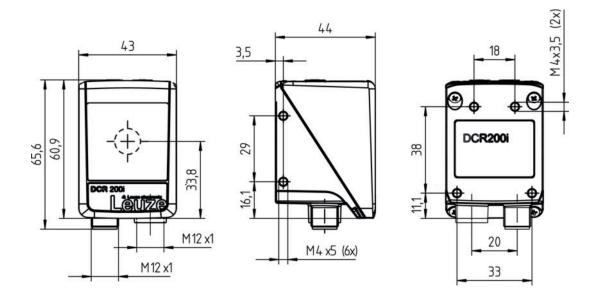
Relative humidity (non-condensing)	90 %
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Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 61000-6-2 EN 61000-6-4
Test procedure for continuous shock in accordance with standard	IEC 60068-2-29, test Eb
Test procedure for vibration in accordance with standard	IEC 60068-2-6, test Fc

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

Dimensioned drawings

All dimensions in millimeters



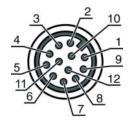
Electrical connection

Connection 1	PWR / SWIO
Function	Data interface Signal IN Signal OUT Voltage supply
Type of connection	Connector
Thread size	M12
Туре	Male



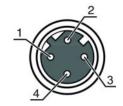
Connection 1	PWR / SWIO
Material	Metal
No. of pins	12 -pin
Encoding	A-coded

Pin	Pin assignment
1	V+
2	GNDIN
3	SWIN 1
4	SWOUT 2
5	FE
6	GND RS 232 / GND RS 422
7	Rx-
8	Tx-
9	RxD/Rx+
10	TxD/Tx+
11	SWIO 3
12	SWIO 4



Connection 2	ноѕт
Function	Configuration interface Data interface
Type of connection	Connector
Thread size	M12
Туре	Female
Material	Metal
No. of pins	4 -pin
Encoding	D-coded D-coded

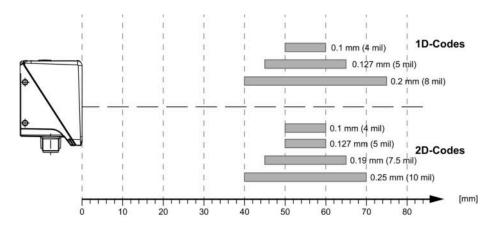
Pin	Pin assignment
1	TD+
2	RD+
3	TD-
4	RD-



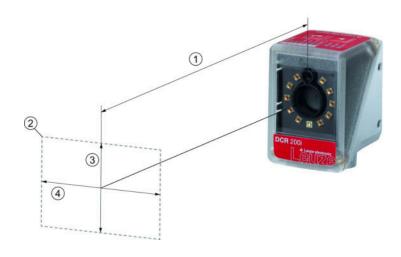


Diagrams

Reading distances

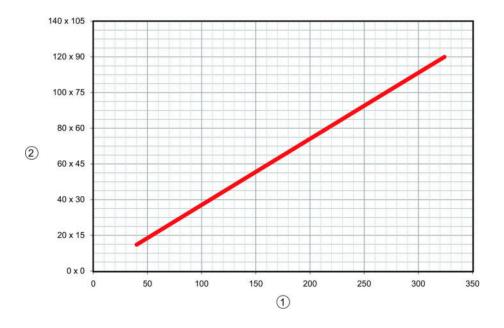


Relationship between camera distance and reading field size



- Camera distance
- 1 2 3 4 Reading field
 Reading field height [mm]
 Reading field width [mm]





- Camera distance [mm]
- 2 Reading field: width x height [mm]

Operation and display

LEDs

LE	:D	Display	Meaning
1	PWR	Off	No supply voltage
		Green, flashing	Initialization
		Green, continuous light	Operational readiness
		Orange, continuous light	Service operation
		Red, flashing	Device OK, warning set
		Red, continuous light	Device error
2	NET	Off	No supply voltage
		Green, flashing	Initialization
		Green, continuous light	Operational readiness
		Red, flashing	Communication error
		Red, continuous light	Network error
3	LINK	Green, continuous light	Ethernet connection is established
		Yellow, flashing	Data exchange active
4	TRIG	Green, flashing	Trigger and display of the read quality
5	AUTO	Green, flashing	Auto-setup and display of the read quality
6	ADJ	Green, flashing	Alignment mode and display of the read quality
7	TEACH	Green, flashing	Teach-in and display of the read quality

Part number code

Part designation: DCR XXX YYY-Z-AAA-BC-D-EEEE

DCR	Operating principle: DCR: Dual Code Reader



XXXX	Series/interface (integrated fieldbus technology): 202i: Ethernet TCP/IP, UDP, RS 232/RS 422 248i: PROFINET-IO, Ethernet TCP/IP, UDP, RS 232/RS 422
YYY	Equipment: FIX: Fixed focal length
Z	Optics: U: Ultra high density (very close) N: High Density (close) M: Medium Density (medium distance) F: Low Density (remote) L: Ultra low density (very large distance)
AAA	Beam exit: 102: front
В	Illumination: R: Red light I: infrared light
С	Resolution range: 3: 1280 x 960 pixels
D	Protective screen: n/a: plastic G: Glass P: Polarization filter
EEEE	Special equipment: V: Stainless steel housing F001: NPN inputs/outputs H: with heating

N	a	TC
-14	v	"

A list with all available device types can be found on the Leuze website at www.leuze.com.

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

Connection technology - Connection cables

Part no.	Designation	Article	Description
50130281	KD S-M12-CA- P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR
50135073	KS ET-M12-4A- P7-020	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR

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Connection technology - Interconnection cables

Part no.	Designation	Article	Description
50135080	KSS ET-M12-4A- RJ45-A-P7-020	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 2,000 mm Sheathing material: PUR

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50132151	BT 320M	Mounting bracket	Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Rigid Material: Metal

Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50132150	BTU 320M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod Mounting bracket, at device: Screw type Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

General

Part no.	Designation	Article	Description
50144030	IL AL 034/031 IR 110 H	Illumination	

Services

Part no.	Designation	Article	Description
S981014	CS30-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.

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Part no.	Designation	Article	Description
\$981019	CS30-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

Note

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