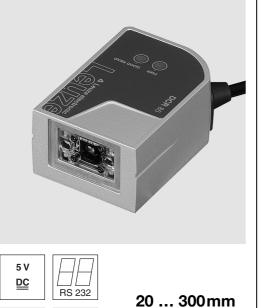
## DCR85



en 01-2016/07 50130075

BARCODE 2D-CODE

- CMOS imager scanner for all common 1D and 2D codes
- Excellent reading and decoding features
- Very small construction
- Integrated decoder
- RS232 interfaces
- Metal case
- Simple mounting and fastening



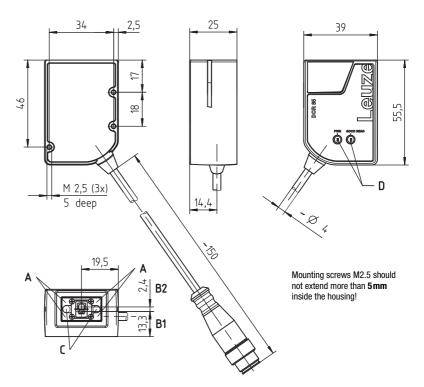
## Accessories:

(available separately)

 Connection cable M12, socket straight, 8-pole, cable length 2m, shielded K-D M12A-8P-2m-PUR (part no. 50104591)

# **CMOS Imager with Integrated Decoder**

## **Dimensioned drawing**



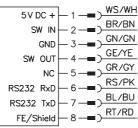
- **A** 4 integrated LEDs for illumination (red light)
- B1 High resolution read field lens
- B2 Wide range read field lens
- C 2 integrated target LEDs (blue light)
- D Status LEDs

## **Electrical connection**

## RS232 - cable

Wire color	Signal	Description	IN / OUT
Red	+5VDC	Power supply 5VDC	IN
Violet	GND	Power supply 0VDC / Ground	IN
Black	SW OUT	Switching output	OUT
Orange	SW IN	Switching input	IN
White	RS 232 RxD	Serial interface	IN
Green	RS 232 TxD	Serial interface	OUT

## RS232 - M12 connector



# Leuze electronic

# DCR85

## Remarks

#### Operate in accordance with

## 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 accor-
- dance with the intended use.

#### Features

- Very small and light scanner with integrated decoder for all common 1D and 2D codes.
- Data transmission via configurable RS232 interface.

## **Specifications**

Optical data

Optical system Optical resolution

Read range Resolution

Light source illumination Light source target LED (aimer) Contrast

#### Code specifications Code types

Code types

wide range read field 960 x 640 20 ... 300 mm 1D codes: m = 0.076mm (3mil), distance dependent 2D codes: m = 0.127mm (5mil), distance dependent integrated LED (visible red light) integrated LED (visible blue light) 25% for 1D code, 35% for 2D code

CMOS Imager, Rolling Shutter (1280x960)

high resolution read field 960 x 640

- 1D: Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, Interleaved 2 of 5, GS1 DataBar (RSS), MSI Plessey, Pharmacode, UPC/EAN, 2 of 5 (IATA, Matrix, Hong Kong, Straight, NEC), Telepen
- Stacked 1D: PDF417, MicroPDF, GS1 Composite, Codablock F
  - 2D: Data Matrix, Aztec Code, QR Code, Micro QR, MaxiCode

Postal Codes: Australian Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Planet, Postnet, UK Royal Mail, UPU ID Tags

#### **Electrical data**

Operating voltage U<sub>B</sub> Current consumption

Interfaces Interface type Baud rate RS232 Data formats RS232 Trigger

Switching output

#### Mechanical data

Weight Dimensions (HxWxD) Fastening Connection type

#### **Environmental data**

Temperature range (operation) Ambient temperature (storage) Air humidity Protection class Electromagnetic compatibility Standards conformity typ. 350mA (continuous reading) typ. 75mA (illumination inactive) RS232

4.5 ... 5.5VDC

9,600 ... 115,200 Bd, configurable configurable switching input (active/not active = 0V/+5V or not connected) or Presentation Mode (Motion Control) NPN transistor output, max. 20mA / successful reading

70g (without cable) 25x39x55.5mm 3 threaded holes M2.5, 5mm deep fixed cable, 2m long, 6 x 0.081mm<sup>2</sup> (6 x 28 AWG) or approx. 0.15m cable with M12 connector, 8-pole, A-coded

0°C ... +50°C -20°C ... +60°C 10 ... 90% rel. humidity, non-condensing IP 54 EN 55022:2006 Class B, IEC 62471:2006 CE, FCC

## **Read ranges**

Code type / resolution m						Typic	al read	ling d	listance [r	nm]		
Code 39 / 0.076mm (3 mil)				80	102							
Code 39 / 0.190mm (7.5mil)		3	3					182				
GS1 Databar / 0.267 mm (10.5 mil)		20							220			
UPC / 0.330mm (13mil)		2	8								280	
Data Matrix / 0.127 mm (5 mil)			43		1	15						
Data Matrix / 0.160mm (6.3mil)		3	3				150					
Data Matrix / 0.254mm (10mil)		20						18	0			
Data Matrix / 0.528mm (20.8mil)		2	8									343

## Order guide

Product Name	Description	Part no.
DCR85M2/R2	CMOS imager scanner for 1D and 2D codes, RS232 interface, fixed cable, 2m long	50131458
DCR85M2/R2-150-M12.8	CMOS imager scanner for 1D and 2D codes, RS232 interface, 0.15m cable with M12 connector	50131581