

Technical data sheet Stationary 2D-code reader

Part no.: 50117534

LSIS 223 M5M-R1

Contents

- Technical data
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- Operation and display
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For illustration purposes only



Technical data

Basic data

Series	LSIS 22x
Chip	CMOS (Global Shutter)

Functions

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

Read data

Code types, readable	2/5 Interleaved
	Aztec
	Codabar
	Codablock
	Code 128
	Code 39
	Code 93
	Composite Codes
	Data Matrix Code
	EAN 128
	EAN 8/13
	EAN Addendum
	GS1 Databar
	GS1 Databar Expanded
	GS1 Databar Limited
	GS1 Databar Omnidirectional
	GS1 Databar Stacked
	GS1 Databar Truncated
	Maxicode
	Micro PDF
	Micro QR
	PDF417
	QR code
	UPC

Optical data

Reading distance	50 ... 330 mm
Camera resolution, horizontal	844 px
Camera resolution, vertical	640 px
Modulus size	0.127 ... 1 mm

Electrical data

Protective circuit	Overvoltage protection
	Polarity reversal protection
	Short circuit protected

Performance data

Supply voltage U_B	4.75 ... 5.25 V, DC
Current consumption, max.	500 mA

Inputs

Number of digital switching inputs	1 Piece(s)
Switching inputs	
Voltage type	DC
Switching voltage	VIN

Outputs

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

Voltage type	DC
Switching voltage	VIN

Interface

Type	USB
USB	
Function	Process
Operating mode	COM port emulation
	Keyboard emulation
Specification	USB 2.0

Connection

Number of connections	1 Piece(s)
Connection 1	
Function	Configuration interface
	Data interface
	Service interface
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded

Mechanical data

Design	Cubic
Dimension (W x H x L)	40 mm x 32 mm x 47 mm
Housing material	Metal
Metal housing	Diecast zinc
Lens cover material	Glass
Net weight	130 g
Housing color	Gray
	Red
Type of fastening	Dovetail grooves
	Fastening thread

Operation and display

Type of display	LED
Number of LEDs	2 Piece(s)
Operational controls	Trigger button
Function of the operational control	Trigger

Environmental data

Ambient temperature, operation	0 ... 40 °C
Ambient temperature, storage	-20 ... 70 °C
Relative humidity (non-condensing)	0 ... 90 %

Certifications

Degree of protection	IP 65
Protection class	III
Approvals	c UL US

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

Electrical connection

Connection 1

Function	Configuration interface Data interface Service interface
Type of connection	Connector
Thread size	M12
Type	Male
Material	Metal
No. of pins	8 -pin
Encoding	A-coded


Pin	Pin assignment
1	V_IN
2	SWIN 1
3	GND
4	SWOUT 1
5	n.c.
6	DATA+
7	DATA-
8	FE/SHIELD

Operation and display


LED	Display	Meaning
1 PWR	Green	Supply voltage on
2 I/O	Green	Reading successful
	Red, continuous light	Trigger

Accessories


Connection technology - Connection cables

	Part no.	Designation	Article	Description
	50135127	KD S-M12-8A-P1-020	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 2.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	50111227	KB M12A-8P-USB-3000	Connection cable	Suitable for interface: USB Connection 1: Connector, M12, Axial, Female, A-coded, 8 -pin Connection 2: USB Shielded: Yes Cable length: 3,000 mm Sheathing material: PUR

Mounting technology - Rod mounts

	Part no.	Designation	Article	Description
	50117252	BTU 300M-D12	Mounting system	Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, Sheet-metal mounting Mounting bracket, at device: Screw type, Suited for M4 screws Type of mounting device: Clampable, Adjustable, Turning, 360° Material: Metal

Note



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