LSIS 123 M6M-R1 2D-code scanner





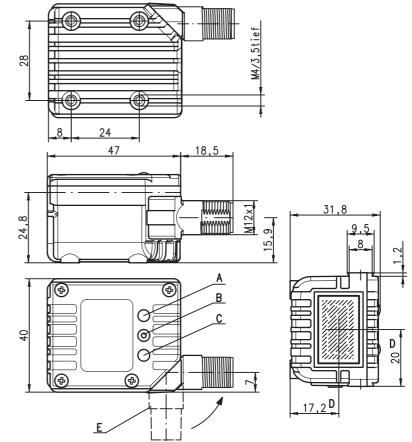






- Very small and compact scanner for 2D codes, bar codes and batch codes
- High resolution
- Trigger via serial command, switching input or trigger button
- Built-in decoder
- LED indicator for completed read operations or switching input
- USB interface
- Operating temperature from 0 through 40°C

Dimensioned drawing



- A Green LED: Power
- **B** Trigger button
- C Green LED: switching output / successful reading Red LED: switching input / trigger
- **D** Optical axis
- E Turning connector, 90°

Electrical connection

8-pin M12 connector, A-coded

LSIS 123 (USB)	8-pin connector	Signal	USB
$\begin{array}{c} \text{SWIN} \\ \text{GND} \\ \hline 3 \\ \hline 0 \\ \hline 0 \\ \text{O} \\ \hline \end{array} \begin{array}{c} \text{FE} \\ \text{SWOUT} \\ \hline 4 \\ \hline 0 \\ \hline 0 \\ \hline 0 \\ \hline \end{array} \begin{array}{c} \text{FE} \\ \hline 0 \\ \hline \end{array} \begin{array}{c} \text{VCC} \\ \hline \end{array}$	1	VIN	4.75 5.5VDC
	2	SWIN	0 VCC
	3	GNDIN	0V
	4	SWOUT	0 VCC
	5	nc	
	6	Data	D+ 0 VCC
	7	Data	D- 0 VCC
	8	FE	Shield
	Thread		

CE





Accessories

Mounting systems (BT 8-O, BT 8-D..., UMS8.2-D...)

LSIS 123 M6M-R1

Specifications

Electrical data

Operating voltage U_B 4.75 ... 5.5VDC Power consumption 1.3W 260mA (at 5VDC) Current consumption

Interfaces

Interface type USB (COM port and keyboard function)

Trigger serial command, auto-trigger mode or switching input

Code types

2D codes Data Matrix ECC 200, MaxiCode, PDF417, MicroPDF, QR Code,

Aztec, Code 49, EAN/UCC Composite 2/5 Interleaved, Code 39, Code 128, Code 93, Codabar, UPC/EAN, Bar codes

Optical data

Optical system high-resolution CMOS pixel array 1280x960

45% (black/white) integrated diffuse LED (red) Contrast Light source

25 ... 310mm (100% UPC / EAN 13) 102mm Read distance

Focal point Read direction omnidirectional, various tilt and rotational angles up to 45°

Mechanical data

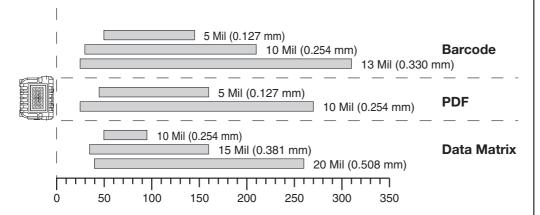
diecast zinc Housing 127g 47x40x32mm Weight Dimensions

Environmental data Ambient temp. (operation)

0°C ... +40°C -20°C ... +70°C 0 ... 95% (non-condensing) Ambient temp. (storage) Relative air humidity

Protection class Standards conformity UL 60950-1

Reading field



Order guide

2D-code scanner	Part No.	
LSIS 123 M6M-R1	Standard Range, USB interface	50110306

Tables

Diagrams

Remarks

Very small and compact scanner for bar codes, with housing. Data transmission via configurable USB interface.

Approved purpose:

This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.

LSIS 123 M6x-R1 - 02 2010/12 LSIS 123 M6M-R1 2D-code scanner

Configuration

The stationary scanner can always be configured via barcodes. To do this, the barcodes on the package insert must first be selected and then the trigger actuated in order to read the code. The configuration is then immediately accepted and executed.

Several of the most important configurations are listed in the following.

A second option is to configure the stationary scanner with RS232 interface with the aid of the **MetroSet 2** PC program. You can download this program from our homepage at <u>www.leuze.com</u> and install it.

The program can be used to make settings and transfer them to the stationary scanner. The configuration can also be stored so that it can be reused at a later time.

The standard applications are described and summarized below.



Notice!

Additional information on the device and short instructions can be found on the Internet at www.leuze.com.

Resetting the LSIS 123 to factory settings (USB keyboard emulation)

To reset the LSIS 123 to factory settings, scan the barcodes below in succession. For this purpose, either the trigger button is to be activated or the SWIN is to be set to high.



2. Novram (512) Config





Exit program mode



This results in the following settings:

- Data transmission: USB keyboard emulation
- German keyboard layout
- Triggering: automatic with presentation mode

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Notice!

The standard Windows keyboard driver is used!

LSIS 123 M6M-R1

Setting COM port emulation for the LSIS 123

To switch the LSIS 123 to the COM port emulation operating mode, scan the following barcodes in sequence. For this purpose, either the trigger button is to be activated or the SWIN is to be set to high.









This results in the following settings:

- Data transmission: COM port emulation on Windows PC
- Framing protocol: STX ... CR LF
- Triggering: SWIN or serial command

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Notice!

The USB COM port driver for the LSIS 123 from the Leuze homepage is necessary!

Trigger

To activate the read process, a trigger signal is to be sent via the serial RS 232 interface or USB interface (COM port emulation only). The command is to be sent at the set baud rate, parity, and data and stop bits.

The activation code is:

ASCII decimal value:

Keyboard entry:

DC2

018

Ctrl+R

To cancel read readiness, send a deactivation.

The deactivation code is:

ASCII decimal value:

Keyboard entry:

DC4

020

Ctrl+T

Following a successful read operation, the LSIS 123 deactivates itself.

The second option is activation via the switching input.

LSIS 123 M6x-R1 - 02 2010/12