Dimensioned drawing











- Hand-held scanner for directly-marked codes (needle print or laser marking on flat surfaces)
- Radio transmission
- Very sturdy, ergonomic housing
- Robust trigger button
- Built-in decoder
- Display for successful reading with LED, signal tone and vibration
- RS 232, PS/2 or USB interface
- Operating temperature from -20 to +50 °C
- Protection class IP 65





Accessories

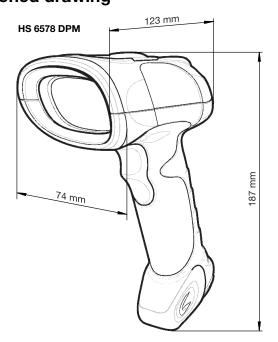
(available separately)

- RS 232 cable voltage via pin 9
 Part no. 50120436
- USB cable

Part no. 50120432

- PS/2 cable
 - Part no. 50120438
- Power supply unit (100 ... 240VAC)
 Part no. 50120430
- Base f. HS 6578 (charging/transfer station)
 Part no. 50120446
- Replacement battery

Part no. 50120448



DPM hand-held scanner with radio transmission



Electrical connection

for USB cable (part no. 50120432)

USB type A	Signal
1	5VDC
2	Data -
3	Data +
4	GND

for RS 232 cable - voltage via pin 9 (part no. 50120436)

9-pin Sub-D	Signal
2	TXD
3	RXD
5	GND
9	5VDC

for PS/2 cable (part no. 50120438)

PS/2 connector		Signai
1		PC Data
3	<u> </u>	GND
4	•	5VDC
5		PC Clock
		KB data
		KB clock
PS/2 socket		
1		
3		
4		
5		

Technical Data

Electrical data

Operating voltage U_B Current consumption Battery

Charging time

Interfaces

Interface type Trigger Radio transmission Operating range

Types of codes

Bar codes

2D-codes Optical data **Optical** system Light source

Reading distance

Mechanical data

Weight Dimensions

Environmental data

Ambient temperature (operation) Ambient temp. (storage) Ambient temperature (load)

Relative humidity Protection class Shock resistance **HS 6578 DPM**

Base f. HS 6578 4.75 ... 14VDC max. 915mA @ 5VDC

Base f. HS 6578

-20°C ... +50°C

298g (without cable) 241x102x74mm

-40°C ... +70°C 0°C ... +40°C (ideal: 0°C ... +35°C)

5 ... 95% (non-condensing)

Li-lon 2200 mAh / 3.6 V 4.5h with external power supply

unit

RS 232, PS/2 and USB

via button

Bluetooth V2.1, class 2, serial port and HID profiles

max. 33m (depending on environment)

2/5 Interleaved, Code 39, Code 128, Code 93, Codabar, UPC/EAN, GS1 Databar

Data Matrix codes ECC 200. Aztec. PDF417. MicroPDF. QR Code

CMOS imager 752x480 alignment aid: 650nm laser diode, IEC class 2 (EN/IEC 60825-1)

illumination element: 630nm LED

21 ... 157mm (UPC/EAN 13, 100% or 0.33mm)

HS 6578 DPM

414g 187x74x123mm

-20°C ... +50°C -40°C ... +70°C 0°C ... +40°C (ideal: 0°C ... +35°C)

5 ... 95% (non-condensing) IP 65

can withstand multiple falls onto a n.a. concrete floor from a height of 2m

Remarks

Robust 2D-code hand-held scanner with integrated decoder for directly marked codes (DPM). These codes may be dot-peened or printed. Laser-etched codes on flat surfaces can also be detected.

Data transmission during keyboard-wedge operation via USB or PS/2 interface, or serial communication via RS 232 and USB interface.

For a functional unit, a handheld scanner, the base station and corresponding cable as well as a power supply unit and must be ordered.

Read field

Code type	Module size [mil]	Module size [mm]	From [mm]	To [mm]
	3	0.076	27.9	40.6
Code 39	5	0.127	0	88.9
Loue 39	7.5	0.191	0	137.2
	20	0.508	27.9	233.7
UPC/EAN 13	13 (100%)	0.330	20.3	157.5
	6.67	0.169	0	94.0
PDF 417	10	0.254	0	114.3
	15	0.381	0	142.2
	4	0.102	25.4	53.3
Data Matrix Cada	5	0.127	10.2	68.6
Data Matrix Code	7.5	0.191	0	88.9
	10	0.254	0	111.8
	4	0.102	27.9	35.6
QR Code	5	0.127	12.7	55.9
	7.5	0.191	0	83.8
	10	0.254	0	101.6

Please notice that the real reading distances are also influenced by factors such as labeling material, printing quality, scanning angle, printing contrast etc., and may thus deviate from the reading distances specified here.

Additional information on the product and on configuring (code type release, number of digits, etc.) can be found in the operating instructions (Product Reference Guide). Download at www.leuze.com.

Order guide

Part no.

HS 6578 DPM

DPM hand-held scanner with radio transmission with RS 232, PS/2 and 50120440 USB Interface

HS 6578 DPM - 01 2013/03

DPM hand-held scanner with radio transmission



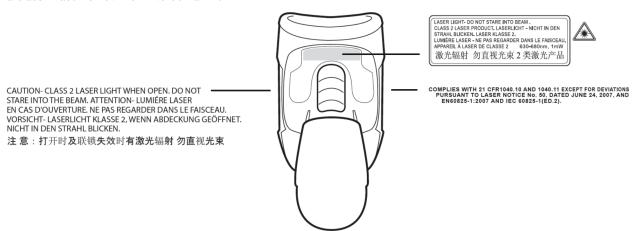
Attention Laser Radiation!

Satisfies directives 21 CFR 1040.10 and 1040.11 (with exception of the deviations listed in Laser Notice No. 50 from 24 June 2007) as well as the requirements given in EN 60825-1:2007 and IEC 60825-1 (Ed. 2).

The laser classification is specified in a sticker on the device.

According to US and international regulations, the following warning must be shown:

Caution: Use of operational controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure. Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a class 2 laser is not known to be harmful.



HS 6578 DPM on serial PC interface

Required parts:

 1x
 50120440
 HS 6578 DPM

 1x
 50120446
 Base f. HS 6578

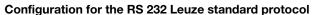
 1x
 50120430
 NT Base 6578

 1x
 50120436
 KB RS232-1 HS 65x8

Scanning the adjacent 2D-code sets the following interface parameters:

RS 232 at 9600 baud, 8 data bits, 1 stop bit, no parity, no prefix, no postfix; Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!



Scanning the adjacent 2D-code sets the following interface parameters for the Leuze standard protocol:

RS 232 at 9600 baud, 8 data bits, 1 stop bit, no parity, prefix STX and postfixes <CR><LF>; Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!





HS 6578 DPM on MA 2xxi

Required parts:

٦x	50120440	HS 6578 DPM
1x	50120446	Base f. HS 6578
1x	50120430	NT Base 6578
1x	50120436	KB RS232-1 HS 65x8
1x	50113397	KB JST-HS-300
1x	50112893	MA 204i Profibus gateway, o
	50112892	MA 208i Ethernet gateway, o
	50112891	MA 248i Profinet gateway

Scanning the adjacent 2D-code sets the following interface parameters for communication with the MA 2xxi gateway:

RS 232 transmission at 9600 baud, 8 data bits, 1 stop bit, no parity, postfixes <CR><LF>; Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!



HS 6578 DPM on MA 21

Required parts:

50030481

1x

50120440 HS 6578 DPM 1x 1x 50120446 Base f. HS 6578 50120430 NT Base 6578 1x 50120436 KB RS232-1 HS 65x8 1x 50035421 KB 021 Z 1x MA 21 100

Scanning the adjacent 2D-code sets the following interface parameters for communication with the MA 21 connector unit:

RS 232 transmission at 9600 baud, 7 data bits, 1 stop bit, even parity, postfixes <CR><LF>;

Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!

Pin assignments KB 021 Z

Core color:	Signal	Terminal in the MA 21:
brown	RXD	26
white	TXD	27
blue	GND	28
red	VCC	30
black	GND	31
bare (shield)	PE	21

HS 6578 DPM on PS/2 interface

Required parts:

50120440 HS 6578 DPM 50120446 Base f. HS 6578 50120430 NT Base 6578 1x KB PS2-1 HS 65x8 50120438

Scanning the adjacent 2D-code sets the following interface parameters for communication via the PS/2 interface:

German PS/2 keyboard with <CR><LF>; Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!

HS 6578 DPM on USB interface (keyboard emulation)

With this operating mode, a PC keyboard is emulated (Keyboard Wedge mode via USB). The read data are written directly into the currently activated program. The data can thereby be further processed in all standard programs.

Required parts:

50120440 HS 6578 DPM 1x 1x 50120446 Base f. HS 6578 50120430 NT Base 6578 50120432 KB USB-1 HS 65x8

Scanning the adjacent 2D-code sets the following interface parameters for keyboard emulation via USB interface:

German USB keyboard emulation with <CR><LF>; Code 2/5 Interleaved with 10 places

The adjacent 'PAIR' bar code, which is affixed to the base station, must absolutely be scanned!

HS 6578 on USB interface (COM port emulation)

With this operating mode, a COM interface is emulated (COM Port Emulation via USB). The read data are sent to a new COM interface and can be further processed by programs that expect data via COM interfaces. The drivers with which this COM interface is emulated can be downloaded at www.leuze.com.

Required parts:

1x	50120440	HS 6578 DPM
1x	50120446	Base f. HS 6578
1x	50120430	NT Base 6578
1x	50120432	KB USB-1 HS 65x8

- 1. Plug the USB cable into the base station and a free USB port. The scanner acknowledges this with a tone sequence.
- 2. Scan the adjacent 2D-code followed by the 'PAIR' bar code, which is affixed to the base station.
- 3. Scan the bar code shown below.
- 4. Install the USB serial driver usbcdc.inf when you are prompted to do so by Windows.
- 5. Open a terminal program or your program for the serial interface and select the new COM port.









