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# DE KONINGH

 CODING & LABELING



Products need labeling  
Print modules  
for industrial use

**PX Q**

Made in Germany

## Print modules PX Q

Full functionality, high reliability, comfortable operation and low downtime related to maintenance! The PX Q print and peel-off module has been designed specifically for printing and labeling fully automatically in industrial applications. It can be integrated in any orientation of assembly to solve even complex marking tasks.

A torsion-resistant cast aluminum construction is basis to assemble all the components of the print mechanics. Food-safe coating and stainless steel casings add to the perfect shape with special features. Screwing is compatible to the devices of competitors.



### The universal one

Industrial device for accurate imprint

Print module		PX Q4.3		PX Q4	
Printable resolution	dpi	203	300	300	600
Print speed	up to mm/s	300	300	300	150
Print width	up to mm	104	108.4	105.7	105.7



### The wide one

Suitable for Odette and UCC labels

Print module		PX Q6.3	
Printable resolution	dpi	203	300
Print speed	up to mm/s	250	250
Print width	up to mm	168	162.6

## Directions of label transfer



All the print modules are provided as left-hand and right-hand versions. As for printable resolutions, PX Q users can choose from 300 and 600 dpi, the PX Q4.3 and PX Q6.3. offer 203 and 300 dpi.

## Details



- 1 Operation panel**  
 Operating the device is intuitive and simple with the help of self-explanatory symbols to configure settings
- 2 Ribbon holder**  
 Three-part tightening axles enable the ribbon to be replaced quickly and easily.
- 3 Rugged metal chassis**  
 made of cast aluminum; basis to assemble all units
- 4 Plungers**  
 One plunger is fixed on the inner side. A second one is moved that far to the label margin, until a good print image evokes.
- 5 Print head**  
 All print heads are freely interchangeable at equal width. Easy replacement
- 6 Automatic ribbon saving (option)**  
 The print head is lifted during label feed and the ribbon is stopped.
- 7 Print roller removal**  
 It can be easily removed or inserted in the cases of cleaning or wear.
- 8 Simple replacement of materials**  
 Label materials are inserted until lateral stop. The print head and wipe-down rollers are locked by levers.
- 9 Label sensor**  
 A gap sensor or a reflective sensor position the imprint precisely on the label and detect the end of the material.
- 10 Material backfeed**  
 After a label has been peeled off, the next one can be retracted to behind the print line. By this, the whole label can be printed and adhesive leaking is avoided during a longer pause. In case sensitive materials are processed and to prevent the ribbon from wrinkling, the print head can be lifted.  
  
**Imprint accuracy**  
 The smaller a label, the higher are the requirements on the imprint accuracy. With the help of the adjustable slip correction, print offset can be reduced by  $\pm 0.2$  mm.

# Technical data

● typical    ■ standard    □ option

Print module		Type	PX Q4.3		PX Q4		PX Q6.3	
Printing method	Thermal transfer		●	●	●	●	●	●
	Thermal direct		●	●	–	–	●	●
Printable resolution	dpi		203	300	300	600	203	300
Print speed	up to mm/s		300	300	300	150	250	250
Print width	up to mm		104	108.4	105.7	105.7	168	162.6
Direction of label transfer			L to the left or R to the right					
Print distance to locating edge	for L and R mm		1	1	1	1	1	1
with automatic saving L and R mm			3.2/2.6	1/0.4	2/2	2/2	1.2/1.2	3.9/3.9
Material								
Labels			Paper, plastics such as PET, PE, PP, PI, PVC, PU, acrylate, Tyvec					
Labels <sup>1)</sup>	Width	mm	10 - 116		10 - 116		50 - 174	
	Height without backfeed	from mm	6		6		12	
	Height with backfeed	from mm	12		12		25	
	Thickness	up to mm	0.60		0.60		0.60	
Liner material	Width	mm	25 - 120		25 - 120		50 - 178	
Ribbon <sup>2)</sup>	Ink side		outside or inside					
	Roll diameter	up to mm	90					
	Core diameter	mm	25.4					
	Variable length	up to m	600					
	Width	mm	25 - 114		25 - 114		50 - 170	
	Automatic saving		□		□		□	
Print module dimensions and weights								
Width x Height x Depth		mm	245 x 300 x 333				245 x 300 x 393	
Weight		kg	11.5				12	
Label sensor with position indication								
Gap sensor		for	labels, punch marks or print marks and end of material					
Reflective sensor reflex from below		for	print marks on non-transparent liner materials and end of material					
Distance of sensor to locating edge		mm	4 - 60		4 - 60		4 - 60	
Material passage		mm	2					
Electronics								
Processor 32 bit clock rate		MHz	800					
Main memory (RAM)		MB	256					
Data memory (IFFS)		MB	50					
Slot to connect a SD memory card (SDHC, SDXC)			■					
Battery for time and date, real-time clock			■					
Data memory when power is switched off (e.g. serial numbering)			■					
Interfaces								
RS232C 1,200 to 230,400 baud/8 bit			■					
USB 2.0 Hi-speed device to connect a PC			■					
Ethernet 10/100 Mbit/s			LPD, RawIP printing, SOAP webservice, OPC UA, WebDAV DHCP, HTTP/HTTPS, FTP/FTPS, TIME, NTP, Zeroconf, SNMP, SMTP, VNC					
1 x USB host on the operation panel		for	Service Key, USB memory stick, USB WLAN stick, USB Bluetooth adapter					
2 x USB host on the back of the device		for	keyboard, barcode scanner, USB memory stick, USB WLAN stick, USB WLAN stick with a rod antenna, USB Bluetooth adapter, external operation panel					
Digital I/O interface 24 VDC with 10 inputs and 11 outputs			□					
Digital I/O interface 5 VDC with 4 inputs and 4 outputs			□					
2-Port Ethernet Switch 10/100 Mbit/s			□					
Operating data								
Power supply			100-240 VAC, 50/60 Hz, PFC					
Power consumption			Standby < 10 W / typical 150 W / up to 300 W					
Temperature / humidity	Operation		+5- 40°C / 10 - 85 %, not condensing					
	Stock		0 - 60°C / 20 - 85 %, not condensing					
	Transport		–25 - 60°C / 20 - 85 %, not condensing					
Approvals			CE, FCC Class A, ICES-3					
	in preparation		cULus, CB, CCC					

<sup>1)</sup> Limitations may apply to small labels, thin materials or strong adhesives. Critical applications need to be tested.

<sup>2)</sup> The ribbon should at least correspond with the width of the liner material.



# Technical data

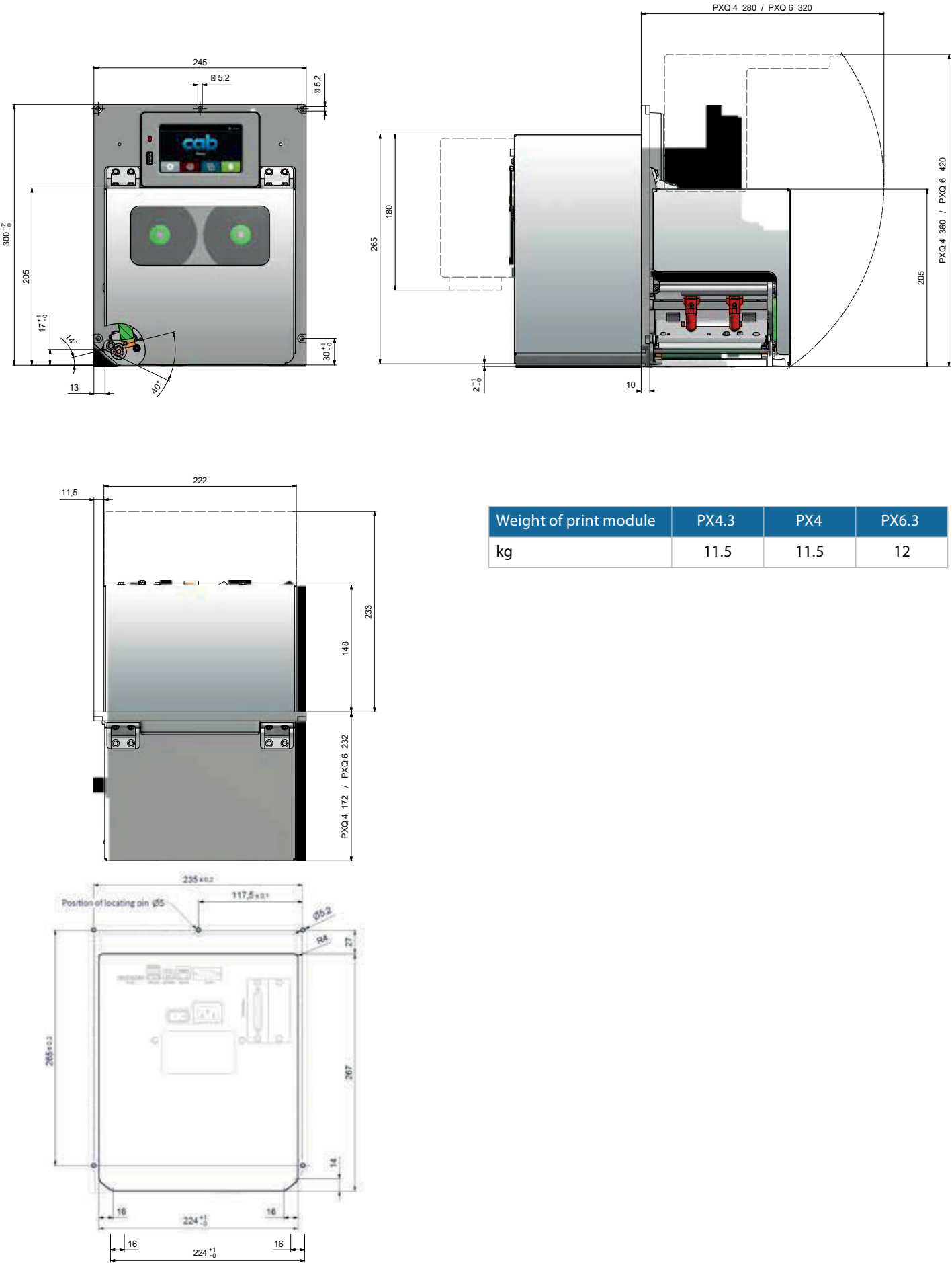
■ standard   □ option

Operation panel			
Colored LCD touch display		Screen diagonal	" 4.3
Resolution Width x Height px			480 x 272
Setup options			
	Print Labels Ribbon Peel-off Apply Interfaces Error	Region: - Language - Country - Keyboard - Time zone Time Display: - Brightness - Power saving mode - Orientation Interpreter	
Status bar			
	Data reception Record datastream Ribbon warning SD memory card plugged in USB memory stick plugged in	Bluetooth WLAN Ethernet USB slave Time	
Monitoring			
	Ribbon Labels Print head	Direction of winding Pre-warning End of material Voltage Temperature open	Print roller for backfeed open
Test routines			
System diagnostics	on start-up, including print head detection		
Information display, test printout, analysis	Status printout Fonts list List of devices WLAN status Record print data on memory card	Test grid Label profile List of events Monitor mode	
Status reports	- Printout of device settings, e.g. print lengths and service hours - Device status request by software command - Display of, e.g., network errors, no links, barcode errors, periphery errors, etc.		
Fonts			
Font types provided internally	5 Bitmap fonts: 12 x 12 dots 16 x 16 dots 16 x 32 dots OCR-A OCR-B	7 vector fonts: AR Heiti Medium GB-Mono CG Triumvirate Condensed Bold Garuda HanWangHeiLight Monospace 821 Swiss 721 Swiss 721 Bold	
to be stored	TrueType fonts		
Character sets	Windows-1250 to -1257 DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869 EBCDIC 500 ISO 8859-1 to -10 and -13 to -16 WinOEM 720 UTF-8 MacRoman DEC MCS KOI8-R  Western European Eastern European Chinese simplified Chinese traditional Thai		
		Cyrillic Greek Latin Hebrew Arabic	

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Fonts			
Bitmap fonts	Widths and heights 1 - 3 mm Zoom factors 2 to 10 Orientations 0°, 90°, 180°, 270°		
Vector-/TrueType fonts	Widths and heights 0,9 - 128 mm Continuous zoom Orientation 360° in steps of 1°		
Font styles	bold, italic, underlined, outline, inverse - depending from the font types		
Character spacing	variable or monospace for fixed character spacings		
Graphics			
Graphic elements	Lines, arrows, rectangles, circles, ellipses - filled or filled with fading		
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG		
Barcodes			
Linear	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C EAN 8, 13 EAN/UCC 128/GS1-128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident and routing code of Deutsche Post Codabar JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0	
2D and stacked	DataMatrix DataMatrix Rectangle Extension QR code Micro QR code GS1 QR code GS1 DataMatrix PDF 417 Micro PDF 417 UPS MaxiCode GS1 DataBar Aztec Codablock F Dotcode RSS 14 truncated, limited, stacked, stacked omni-directional  All codes are variable in terms of height, modular width and ratio; orientations 0°, 90°, 180°, 270°  check digit, plain text printout and start / stop code are options depending from the type of code		
Software			
Label software	cablabel S3 Lite cablabel S3 Viewer cablabel S3 Pro cablabel S3 Print		■ ■ □ □
Running also with	CODESOFT NiceLabel BarTender		
Stand-alone operation			■
Windows printer drivers WHQL certified for	Windows Vista Windows 7 Windows 8 Windows 8.1 Windows 10	Server 2008 Server 2008 R2 Server 2012 Server 2012 R2 Server 2016 Server 2019	■
Apple Mac OS X printer drivers	from version 10.6		■
Linux printer drivers	from CUPS 1.2		■
Programming	JScript printer language abc Basic Compiler		■ ■
Integration	SAP Database Connector		■ ■
Emulation	ZPL (Datastream to be tested in advance)		□
Administration	Printer control Configuration in Intranet and Internet Network Manager (in preparation)		■ ■ ■

# Dimensions



Weight of print module	PX4.3	PX4	PX6.3
kg	11.5	11.5	12

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