cab
product marking

Print module
PX-Series The Executive Class

Edition 6.2

Trained employees and
specialists see to
perfect quality.

Our labelling systems can be
fit in seamlessly:
for your process to run smoothly.

We offer a high level of individualization

We do not only deliver devices,
but also parts of your processes.

Quality in the first place

With our progressive, first-class product labelling systems and devices we have established ourselves as a constant on the global market. Since 1975 our customers rely on high quality "Made in Germany".

cab goes global

Today we hold the position as an innovation leader. Like many of our customers we are based in Germany but act global. Seven subsidiaries and 350 professional distribution partners in more than 80 countries all over the world ensure cab to be close to her customers.

In-house production

In order to achieve highest quality we manufacture on our own production line in Sömmerda. We are accredited according to ISO 9001 and try to constantly strengthen our leading position.

Devices with system

Labelling technology is characterised in that it is needed almost everywhere, in changing environments, with other standards, with various process integrations.
For this reason we consequently pursue our fundamental idea of a system solution:all our devices go with the individual software as well as the labels, the ribbons, the connection to and the integration into your superior processes

respectively – a one-stop solution. You see: we have much going for! For 11 years now our entire product range is awarded with the Energy Star-seal. In addition to the positive effects on the electricity costs the reduced standby-mode saves – totalized for the entire product range – one tonne CO_2 day.

ENERGY STAR

Innovative technology for better climate protection, energy-saving. Environmentally conscious.

Our ambitions are:
perfect function, high reliability, easy handling, low deadlock and repair.

The PX print and dispense module is especially designed for the fully automated printing in the industrial environment. The PX can be integrated in each print direction and solves every labelling application.

A warp resistant aluminium cast design form the basis for the mounting of all components of the print mechanism.
The food safe coating and stainless steel facing make the form and the functions perfect.
The installation of the device is mount-compatible to the devices of our competitors.

All modules are available either in left-hand or right-hand version with optional 200, 300 and 600 dpi print resolution. They can be used for thermal transfer or thermal direct printing. A ribbon saver is also available.

During maintenance or repair parts or components can be changed easily.

PX has all current interfaces such as RS 232, USB or Ethernet available. The digital integration interface meets highest demands.

The data preparation can be effected in real time due to the fast 32 Bit processor and the large RAM- and flash memory.

Printing without PC: in the stand-alone mode texts, graphics or printer specific adjustments can be printed from the internal memory or a memory card.

We assure system compatibility and make your decisions safe.

Perfection to the detail
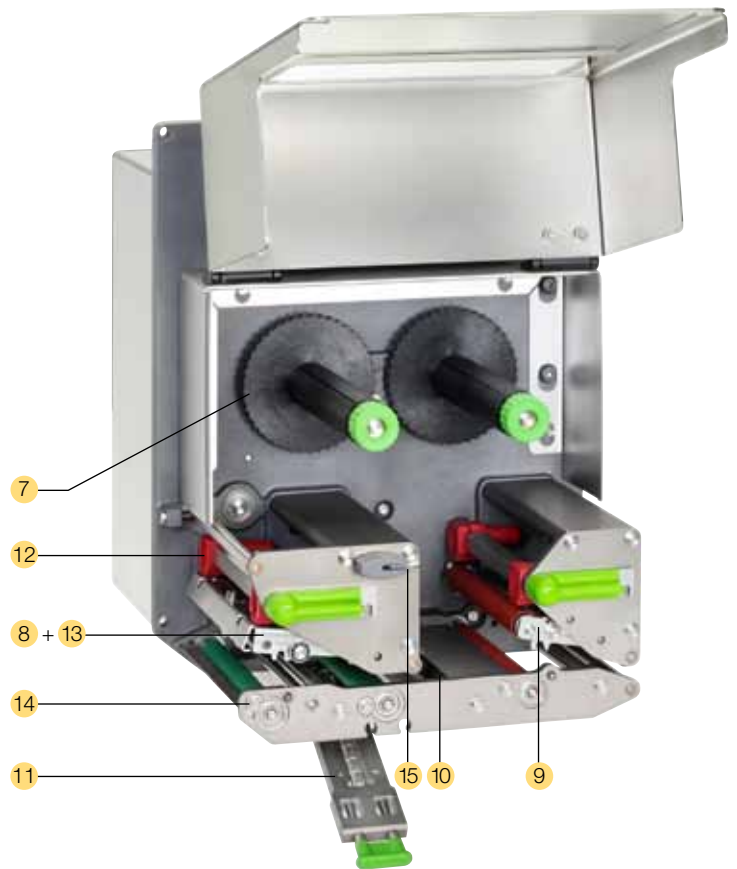
Convincing product advantages

1. **Big graphic display**
   White backlight for optimal readability.

2. **Navigator pad**
   With illuminated lettering for an interactive menu navigation.

3. **CF-memory card**
   Slot for CF-memory card for storage of label formats, fonts, texts, graphics, programmes or data bases.

4. **USB-Slot**
   Additional USB-slot for service keys, keyboard, scanner or USB memory.

5. **Power switch**
   Attached to the front for better handling.

6. **Solid metal cover**
   It is made of dye-cast aluminium with antibacterial coating. All casings are made of stainless steel.

7. **Ribbon rewinder and unwinder**
   The threepart tightening axles allow a fast and easy ribbon exchange. Slender ribbons can be fixed in every position.

8. **Ribbon saver**
   It is used for labels which are to be printed partially. During label feed the printhead is lifted in the blank area and the ribbon is stopped.

9. **Back-feed**
   After dispensing the label the next one can be fed back behind the print line. Thus the label can be imprinted until the label edge and leaking of the liner during a longer pause is prevented.

10. **Gap sensor**
    With the see-through or reflective sensor the imprint on the label can be positioned precisely and the end of material can be detected – independent of the gaps.

11. **Easy replacement of material**
    The label material is inserted edgewise up to the end position. The printhead and the pressure roller are locked with locking levers.

12. **Adjustment of the print layout**
    By moving the plungers the pressure can be adjusted easily.

13. **Fast printhead exchange**
    With the Allen Key which is readily to hand in the machine the printhead can be exchanged and adjusted easily.

14. **Removing the print roller**
    For cleaning or replacement the print roller can be easily removed

All interfaces built in
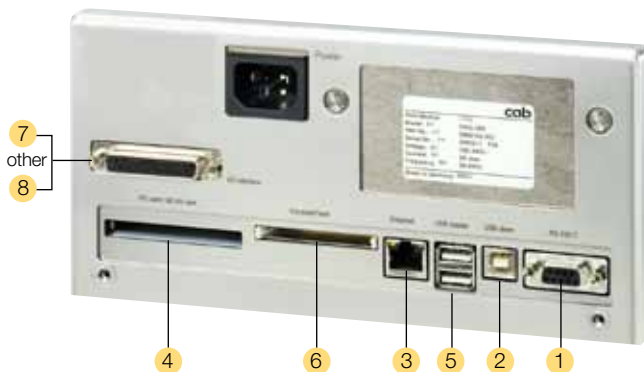
1. RS232C interface.
2. USB 2.0 Slave interface.
3. Ethernet 10/100 Base T-interface with TCP/IP.
4. Slot for Wireless LAN-Wifi-card.
5. Two USB-Master-interfaces to connect an external operation panel, keyboard, scanner or Service Key.
6. Slot for memory card CompactFlash Type I.
7. Digital I/O-interface.
   25-pin SUB-D socket
   Each of the 24V in- and outputs are separated potential-free.

Input	Output
Label feed	Warning if end of ribbon
Repeat print run	Warning if end of label
Start printing	Paper feed ON
Pause	Print start
Label dispensed	Error end of ribbon
Cancel re-set with memory	Error end of label
Cancel re-set without memory	Print data available
	Label in dispensing position
	Error printer

Options

Centronics interface bi-directional acc. IEEE 1284. Interface RS422/RS485 1.200 bis 230.400 Baud/8 Bit.

The interfaces are plugged onto the PC. Connection to the printer via mini USB connection cable.

Label selection box – I/O box.
Up to 16 different labels can be loaded via SPS from a memory card. Operation of four in-/outputs via Basic Interpreter.

cab WLAN card 802.11 b/g.

8. OEM – digital I/O-interface
   15-pin SUB-D socket
   Each of the 5V in- and outputs are separated potential-free

Input	Output
Label feed	Warning if end of ribbon
Repeat print run	Paper feed ON
Start printing	Error end of ribbon
Cancel re-set without memory	Error end of label
	Print data available
	Label in dispensing position
	Error printer

Accessories the stand-alone operation

Memory card
CompactFlash Type I

Compact keyboard
Connection: USB
Number of keys: 86
L x B mm: 282 x 132
Cherry G84-4100

Standard keyboard
Connection: USB, Numb. of keys: 115
L x B mm: 460 x 192
Cherry G83-6105

The functions of the devices and conformity to CE-standards are only warranted by using the accessories made by cab or recommended by cab.

Stand-alone operation
Printing with a cab printer without PC.

The layout of the labels is created either with the label software or direct programming via text editor directly on the PC. Label formats, fonts and graphic data, serial data and data base contents are saved or imported on the CF memory card or the internal IFFS printer memory.

Only variable data is sent to the printer via keyboard or host computer before being printed out. Data of a barcode scanner or a scale can be additionally received by the printer.

1. Printhead	PX4			PX4.3[2]		PX6	
Printing method	Thermal transfer / thermal direct						
Print resolution dpi	203	300	600	203	300	203	300
Print speed up to mm/s	250	250	100	200	150	200	200
Print width up to mm	104	105.6	105.6	104	108.4	168	162.6
2. Material							
Labels, continous rolls or fan-folded	paper, cardboard, textiles, synthetics like PET, PE, PP, PVC, PU, Acrylat, PI						
Material thickness / weight g/m^2	0.055 - 0.35 / 60 - 160						
Label width[1] mm				10 - 116		50-174	
Width of carrier[1] mm				25 - 120		50-178	
Label height[1] min. mm without back-feed	6	6	6	6	6	12	12
min. mm when dispensing[1]	12	12	12	12	12	25	25
max. mm	5000	4000	1000	5000	4000	6000	3000
3. Ribbon							
Ink	inside or outside						
Roll diameter up to mm	86						
Core diameter mm	25						
Ribbon length variable up to m	600						
Width[3] up to mm	114					165	
Ribbon saver	☐						
6. Label sensor							
See-trough sensor	for label edge or punching mark and end of material						
Reflective sensor from the botton	for printing marks						
Distance to locating edge mm	4 - 60						
7. Electronics							
Processor high speed 32 Bit ColdFire/speed MHz	266						
RAM MB	64						
Memory IFFS MB Flash	8						
Slot for CompactFlash card Type I	■						
Slot for Cardbus / PC-Card Type II	■						
Real-time clock, printout of date and time	■						
8. Interfaces							
Centronics bi-directional acc. IEEE 1284	☐						
RS 232 C 1.200 up to 230.400 Baud/8 Bit	■						
USB 2.0 High Speed Slave for PC connection	■						
Ethernet 10/100 Base T, LPD, RawIP-Printing, ftp-Printing, DHCP, HTTP, FTP, SMTP, SNMP, TIME, Zeroconf, mDNS, SOAP	■						
RS422, RS485 1.200 up to 230.400 Baud/8 Bit	☐						
WLAN card 802.11b/g WEP/WPA PSK (TKIP)	☐						
Wireless bridge 802.11b	☐						
2 x USB Master for	external operation panel, keyboard, scanner, service key						
Digital I/O interface	■						
9. Operation data							
Power supply	100 - 240 V ~ 50/60 Hz, PFC						
Energy consumption	max. 250 W						
Operation temperature	5 - 40°C						
Humidity	30 - 85% not condensing						
Approvals	CE, FCC class A, CB, CCC, UL						
10. Operations panel							
Buttons/LED display	Pause, Feed, Cancel, Menu, Enter, 4 x Cursor						
LCD graphic display	Text 4 lines, ca. 20 characters per line						
Width x Height mm	60 x 40						

[1] Depending on label size, material and adhesive limitations are possible. Critical material or applications have to be testet and cleared.
[2] Preferred for thermal transfer printing.
[3] The ribbon should approximate the width of the labels in order to avoid drapery.

■ Standard   ☐ Option

11. Settings

	Time, date, digital or analog clock	
	25 language settings	
	system settings, print parameters, interfaces, security	

12. Monitoring

Stop printing if	End of ribbon End of labels Printhead open	
On the display	Data reception	Clock
	WLAN field intensity	Date sheet
	Ethernet state	abc Debug
	Used memory	Input buffer
	Temperature printhead	
	Access to memory card	
	Remaining quantity of ribbon	

13. Test routines

System diagnosis	When switched on with testing of printhead
Short status, status print	Font list, device list, WLAN state, profile of label, test grid, monitor mode, PPP state
Status reports	Extensive status print with information about setting, e.g. print length counter, runtime counter etc. Request of machine state via software command. Detailed status messages on the display, e.g. network error-no link, barcode error etc.

14. Fonts

Font types	5 Bitmap fonts incl. OCR-A, OCR-B and 3 Vector fonts Swiss 721, Swiss 721 Bold and Monospace 821 available internally, loadable TrueType fonts. Optional Chinese (simplified Chinese) Optional Thai
Character sets	Windows 1250 up to 1257, DOS 437, 737, 775, 850, 852, 857, 862, 864, 866, 869, EBCDIC 500, ISO 8859-1 up to -10 and -13 up to -16, WinOEM 720, UTF-8, Macintosh Roman, DEC MCS, K0I8-R. All West and East European latin, cyrillic, greek, hebrew and arabic characters are supported. Optional Thai and Chinese
Bitmap-Fonts	Size of width and height 1 - 3 mm zoom 2-10. Orientation 0°, 90°, 180°, 270°
Vector-/TrueType fonts	Size of width and height 0.9 - 128 mm variable zoom, orientation 360° in steps of 1°
Font formats	Bold, italic, underlined, outline, negative, grey, vertical, depending on character fonts
Font width	Variable

15. Graphics

Graphic elements	Line, arrow, box, circle, ellipse, filled and filled with fading
Graphic formats	PCX, IMG, BMP, TIF, MAC, GIF, PNG

16. Barcodes

Linear Barcodes	Code 39, Code 93 Code 39 Full ASCII Code 128 A, B, C Codabar EAN 8, 13 EAN/UCC 128 EAN/UPC Appendix 2 EAN/UPC Appendix 5 FIM HIBC	Interleaved 2/5 Ident- and leader code of Deutsche Post AG JAN 8, 13 MSI Plessey Postnet RSS 14 UPC A, E, E0
2D-Codes	Aztec, Codablock F, Data Matrix, PDF 417, Micro PDF 417, UPS Maxicode, QR-Code, RSS 14 truncated, limited, stacked and stacked omnidirectional, EAN-Datamatrix, GS1 Data Bar	

All codes variable in height, module width and ratio.
Orientation 0°, 90°, 180°, 270°.
Optionally with check digit, printed characters and Start/Stop code depending on code type.

17. Software

Programming	J-Script direct programming	■
	abc-Basic Compiler	■
	Database Connector	☐
System diagnosis/ administration	Printer monitoring	■
	Network Manager	☐
Label software	cablabel R2+	■
	Codesoft, Nicelabel, Easylabel	○ ☐
	Bartender, Label Matrix, Labelview	○
Windows driver certified	32/64 bit for Windows 2000 Server 2003 Windows XP Server 2008 Windows Vista Server 2008 R2 Windows 7	■
Stand-alone operation		■

Standard ■
Option ☐
Authorized distribution by resellers. ○

The specifications are according to our current technical knowledge. They are subject to change.

Please recall current data from www.cab.de

Accessories

External panel
It is connected via USB-interface. Both panels are comparably operative at the device.

Interface cover
Protects the interfaces from humidity and contamination.

Interface connector 25-pin SUB-D
with screw clamps for the cable connection.

Interface connector 15-pin SUB-D
with screw clamps for the cable connection.

The functions of the devices and conformity to CE-standards are only warranted by using the accessories made by cab or recommended by cab.

```
J                              Job Start
H 100                          Speed (100 mm/s)
O R                            Orientation rotated by 180°
S l1;0,0,68,70,100             Size of label (100x68 mm, gap 2 mm)
T 10,10,0,5,pt20;sample        Text object/font: Swiss bold, 20 pt
B 10,20,0,EAN-13,SC2;401234512345  Barcode EAN 13, size SC 2
G 8,3.5,0;R:30,9,0.3,0.3       Graphic, box 30 x 9 mm,
                               Line strength 0.3 mm
A 1                            Number of labels (in this example 1)
```

Direct programming with J-Script

The printer language is easy to understand and integrate into your host system. Linkage of variable data with host application. Label design, graphics and fonts are recorded on the compact flash card. The host computer sends only the variable data to the printer.

SAP® Printer Vendor Program

Create labels with software → Transfer replace file into SAP-Script → Exchange of variable data with SAPScript and printout

Upload-Method SAP R/3 note no. 137431

Integration into SAP R/3

In collaboration with SAP cab developed the so-called "Replace method" in order to control the cab printers with SAPScript from SAP/R3.
As a Silver Level-partner in SAP's Printer Vendor Program cab has access to the SAP development area for optimal printer support in a SAP environment.

SAP and R/3 are registered trademarks of SAP AG.

```
calypso.lbl - Editor
Datei  Bearbeiten  Format  Ansicht  ?

<ABC>
label start
input a$
if left$(a$,15)="194300301480070" then
        print "R t2;",mid$(a$,16)
endif
if left$(a$,15)="194300300580172" then
        print "R t3;",mid$(a$,16)
endif
if left$(a$,15)="194300301970073" then
        print "R t1;",mid$(a$,16)
endif
if a$="q0001" then
        print "A 1"
endif
goto start
```

abc - Basic Compiler

As an integrated element of the firmware it enables the printer to process data via BASIC programming before being transmitted to print editing. Thereby external printer languages can be replaced or data from other systems, e.g. SPS or a scale, can be transferred to be printed on different label sizes.

Example of use:
Connection to a scale
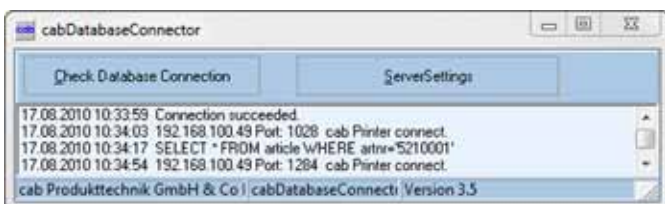
Database Connector

In the stand-alone mode with additional network connection the Database Connector enables stand-alone printers to link up data from a SQL-compatible database and to print.
Data can be rewritten and modified simultaneously with the printing process.
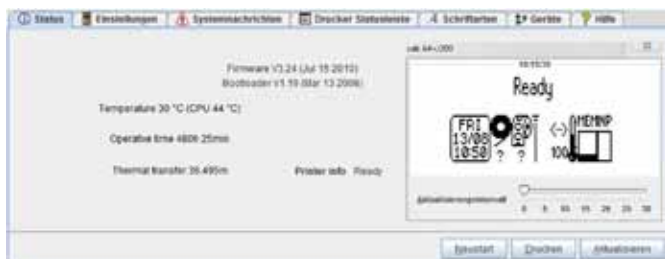
Printer monitoring with Intra- and Internet

The integrated HTTP- and FTP-Server enables, with standard programs like web browser or FTP-clients, the print monitoring, configuration, the firmware-update and the administration of the memory card. Status signals, warning or error signals are sent to users or administrators either as email or SNMP-datagram via SNMP- and SMTP-clients. Synchronization of time and date with a time server.
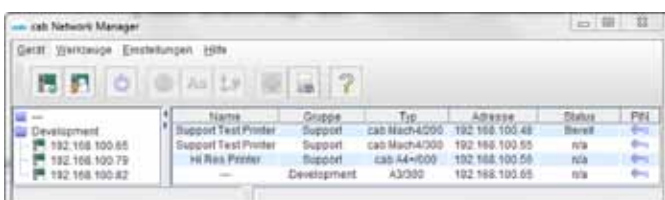
Administration Network Manager

The cab Network Manager enables the user to control multiple printers across a network simultaneously. It supports monitoring, configuration, firmware updates, memory card, datasynchronization and PIN-administration centrally.

WHQL-accredited Windows printer driver for

Windows 2000
Windows XP
Windows Vista
Windows 7

Windows Server 2003
Windows Server 2008
Windows Server 2008 R2

Our printer drivers are officially accredited and signed by Microsoft. They offer highest stability on your Windows operating system. The programs Word, Excel, Access, Corel Draw etc. permit the design and printing of labels.

Microsoft® is a registered trademark of Microsoft Corporation.

Label software

cablabel R2+

A powerful label software for free, specially designed for cab printers and print & apply systems.

The ideal design of a label is realizable by using different fonts, barcodes and graphics in variable heights, widths and printing directions.

The cab printers offer, besides the loadable MS Windows-available TrueType Fonts, a large number of internal bitmap and vector fonts. Due to the support of the most commonly used codepages country-specific special characters are also printable.

Highly productive functions permit the design and printing of complex labels within just a few minutes. cablabel R2+ supports special functions of the cab printers such as real-time clock, printer counter, stand-alone operation without PC, circular fonts or the display of the data stream into a data file. The MDI-technology permits the synchronous tensioning of several labels and the switching of different objects.

Cablabel R2+ is available in 24 different languages for the following operating systems:

Windows XP
Windows Vista
Windows 7

Windows Server 2003*
Windows Server 2008*

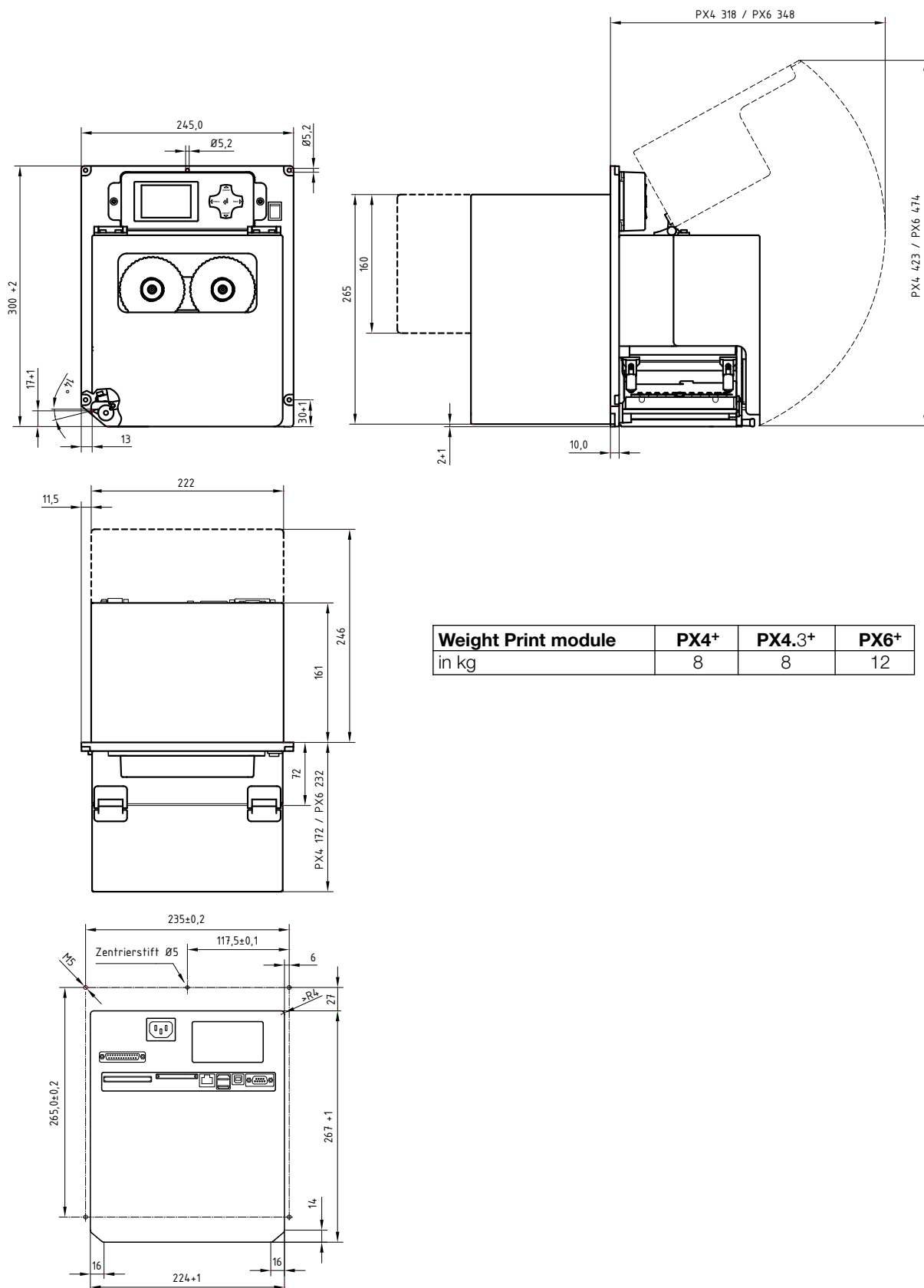*Terminalserver / Citrix are not supported.

Additional label software…

…such as Codesoft, Nicelabel, Easylabel, Bartender, Label Matrix or Labelview support cab's transfer printers and print & apply systems.
More information is available on our homepage.

Part No.	Hardware	dpi	Part No.	Consumables	Part No.	Consumables
5956102.xxx	Print module PX4L/200		5956381.001	Printhead 4/203	5954180.001	Print roller DR4
5956103.xxx	Print module PX4L/300		5956382.001	Printhead 4/300		
5956106.xxx	Print module PX4L/600		5956383.001	Printhead 4/600		
5956112.xxx	Print module PX4R/200					
5956113.xxx	Print module PX4R/300					
5956116.xxx	Print module PX4R/600					
5956142.xxx	Print module PX4.3L/200		5954085.001	Printhead 4.3/203		
5956143.xxx	Print module PX4.3L/300		5956384.001	Printhead 4.3/300		
5956152.xxx	Print module PX4.3R/200					
5956153.xxx	Print module PX4.3R/300					
5956235.xxx	Print module PX6L/200		5954217.001	Printhead 6/200	5954245.001	Print roller DR6
5956123.xxx	Print module PX6L/300		5956322.001	Printhead 6/300		
5956236.xxx	Print module PX6R/200					
5956133.xxx	Print module PX6R/300					

.xxx →		.201	.202	.203	.204
	Digital I/O-Interface	x	x		
	OEM - Digital I/O-Interface			x	x
	Ribbon saver		x		x

Content of delivery:

Print module PX as Label printer,
Power cable Type E+F, length 1,8 m,
Connecting cables USB, length 1,8 m
Operation manual de/en

DVD:
Operation manual de/en/fr,
Configurations manual de/en/fr,
Service manual de/en,
Spare part list de/en,
Programming manual en,
Windows printer driver 32/64 bit in 19 languages for

Windows 2000	Server 2003
Windows XP	Server 2008
Windows Vista	Server 2008 R2
Windows 7	

Label software cablabel R2[+] in 24 languages
Database Connector en

Part No.	Accessoires
5954380	External operation panel
5965040	Interface cover
5917651	Interface connector 25-pin SUB-D with screw clamps for the cable connection
5917652	Interface connector 15-pin SUB-D with screw clamps for the cable connection
5561043	Memory card CompactFlash Type I
5901630	Compact keyboard USB, Cherry G84-4100
5901626	Standard keyboard USB Cherry G83-6105

Part No.	Interfaces
5954200	Centronics Interface
5954201	RS422/RS485 Interface
5954191	Label selection box
5561041	WLAN-card 802.11 b/g

Part No.	Connecting cable
5550818	Connecting cable RS232 C 9/9-pin, length 3 m
5918008	Patch cable KAT 5e, 3 m grey

Part No.	Software
DL 40100	Database Connector, licence
5580215	Administration Network Manager
Content of delivery	Label software cablabel R2[+]
on request	Codesoft, NiceLabel, Easylabel
9008486	Programming manual english, printed copy

245,0
Ø5,2
Ø5,2
300 +2
17+1
71°
13
30+1

265
160

PX4 318 / PX6 348
PX4 423 / PX6 474
10,0
2+1

222
11,5
246
161
72
PX4 172 / PX6 232

Weight Print module	PX4+	PX4.3+	PX6+
in kg	8	8	12

235±0,2
117,5±0,1
6
M5
Zentrierstift Ø5
27
265,0±0,2
267 +1
14
16
16
224+1

The cab delivery program

cab product marking

Label printer A⁺ series

Label printer XD4
for double sided printing

Label printer XC6
for two-tone printing

Label printer e4

Label printer MACH4

Labels / Ribbons

Label dispenser HS150

Print and Apply
Hermes⁺

Print module PX-series

Label software

Laser marking systems
FL-series

Laser safety housing

Central en Alemania
- Sucursales cab
- 350 distribuidores
  en más de 80 países.

Presencia internacional de cab con representación en los principales centros industriales.

También en el trabajo diario estamos a su servicio.
Nuestro objetivo es la correcta evolución de sus procesos.

Bienvenido a nuestro sitio web: www.solge.es

Cerca del cliente en todo el mundo con numerosos centros de servicio y tiempos de reacción breves.

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Otras delegaciones de cab bajo solicitud.