# Product Catalog Provit 5000/5600

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Product Catalog Provit 5000/5600

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160	70,	70,		40,

# **System characteristics**





### Provit 5000/5600 – Modular industrial PCs

Unlike many other IPC complete solutions, Provit industrial PCs from B&R have an uncompromising modular design. This means that display units and IPC5000C or IPC5600C controllers can be selected and combined as desired when using Provit 5000 and Provit 5600 systems. Limitations, such as the largest display requiring the most memory and fastest processor, simply don't exist. This allows both the display unit as well as the controller to be optimally matched to the respective application.

### Made by B&R

Provit industrial PCs are "Made by B&R". As a result, all of the relevant components such as the motherboard and housing are developed and manufactured by B&R. The latest production and testing equipment guarantees the high quality that industrial users expect for continuous operation.

### Individually configurable

IPC5000C and IPC5600C industrial PCs offer unique flexibility in this performance class. Their division into bus and system units means that these industrial PCs can be configured with a varied number of slots. For example, the IPC5000C can be equipped with two or five half-size PCI, ISA and PCI/ISA slots. A bus unit with five slots is available for the IPC5600C as well (four of these slots are for full-size cards). All bus units are offered in two versions for 120/230 VAC or 24 VDC. The processor and RAM can also be selected from the available product spectrum.

### Integrated industrial communication

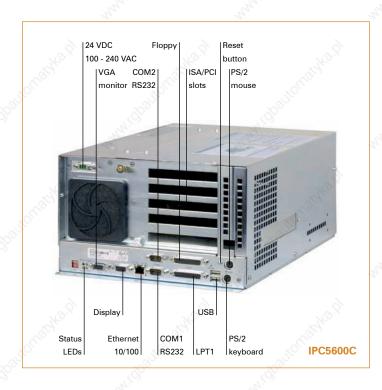
IPC5000C and IPC5600C controllers are equipped with all the necessary interfaces required for industrial communication:

- 2 x RS232
- 1 x parallel
- 2 x USB
- 2 x PS/2 for keyboard and mouse
- 1 x VGA for external monitor (in addition to the display unit)
- 1 x Ethernet 10/100 MBit/s
- · External floppy drive or remote CD-ROM drive

In addition, other insert cards with interface expansions can be used at any time.

### Reliable operation with CompactFlash

Modularity plays a role even for the mass memory. Instead of an installed hard disk, the IPC5000C has a slot which can be used to connect either a hard drive, a CompactFlash adapter, or a combination of both. CompactFlash memory has an available capacity between 64 MB and 8 GB. The IPC5600C also offers a second slot so that two hard drives can be combined here as well. All of these options are enough to guarantee secure operation for all applications, even under unusual conditions.



### **Extensive system diagnostics**

In addition to demands on mechanical stability and load capacity, operational safety and diagnostics also play a crucial role. For this reason, a logbook is available on the Provit 5000 and Provit 5600 devices to record operating hours, power-on cycles, overtemperature hours, and fan and display operating times. This information can then be interpreted by the user to gain insight into the operational status of the IPC.

# Optimal user guidance with touch screen and function keys

Provit 5000/5600 display units are available with diagonals of 10.4" to 15" and VGA to XGA resolution. The front of the panels feature IP65 protection from sprayed water. Devices are available with a touch screen, a touchpad (Provit 5600), and function keys to ensure optimum user guidance. Function keys can be individually marked with symbols using legend strips. Both key and LED functions can be easily defined using software.

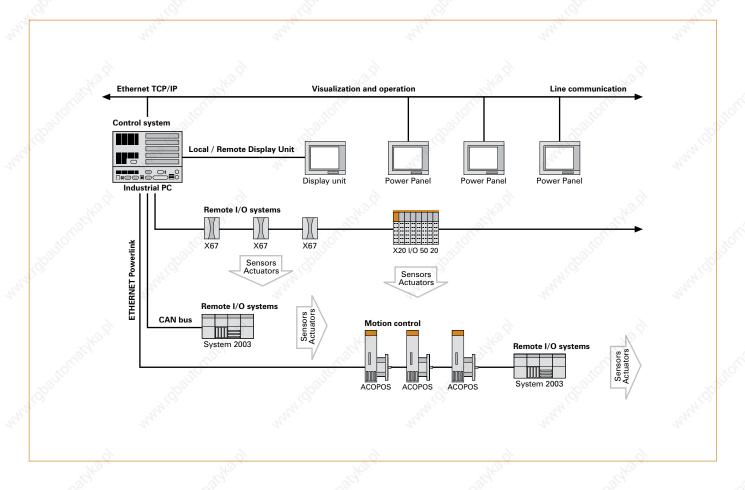
### Product comparison: IPC5000C / IPC5600C

	IPC5000C		IPC5600C		
Processor	Intel Celeron 566, Pentium III	600, Pentium III 850	Intel Celeron 566, Pent	ium III 600, Pentium III 850	247
Memory	64 - 512 MB		64 - 512 MB		
Graphics	ATI Rage Mobility M, 4 MB vi	deo RAM	ATI Rage Mobility M, 4	MB video RAM	
Ethernet	1 x 10/100 MBit/s		1 x 10/100 MBit/s		
Slots	2 or 5, half-size		5 (1 x half-size, 4 x full-	-size)	
HDD	√		√		
2 x HDD	Nago,		√		
HDD + CF	√		√		
2 x CF	√		√		
Integrated drives	CD-ROM		CD-ROM, FDD		
	CD-RW		CD-RW, FDD		
			DVD-ROM, FDD		
			FDD		
Power supply	100 - 240 VAC		100-240 VAC		
	24 VDC		24 VDC		

# **Typical topologies**

### Industrial PC for centralized control and visualization

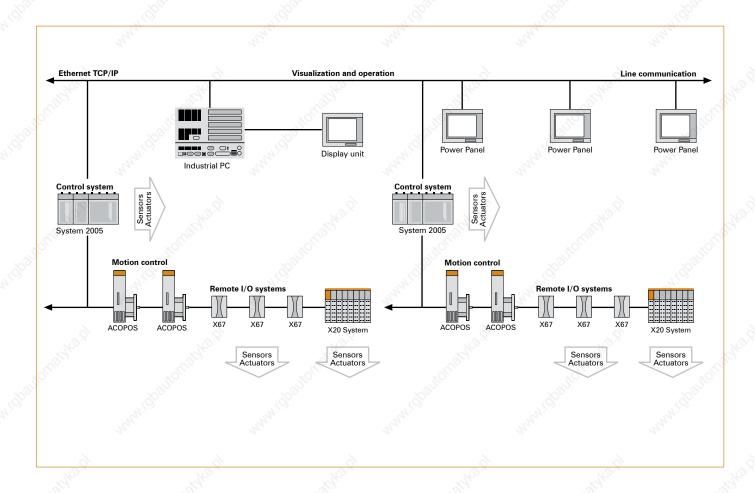
The controller program runs on an industrial PC. The visualization project is integrated with Visual Components. A display unit is connected to the PC. The PC is networked over Ethernet TCP/IP; additional Power Panel-based operator terminals can be also connected via Ethernet. Communication to I/O systems with axes is handled via fieldbus systems (CAN, ETHERNET Powerlink).



27.		
Control system	IPC5000/5600: Compact industrial PCs	
Visualization and operation	Power Panel: Integrated control, operation, and visualization	
Motion control	ACOPOS: Intelligent servo drives	
Distributed I/O systems	X20 System	
	X67 System: Remote I/O with IP67 protection	
	System 2003: Compact controllers, remote I/O	

### The PC as a visualization device

The visualization application runs on the 5000/5600 industrial PC as a SCADA application. The control tasks interact with one or more underlying PLC stations where I/O systems and drives are connected locally or remotely over fieldbus systems. Additional SCADA stations can be networked via Ethernet TCP/IP.

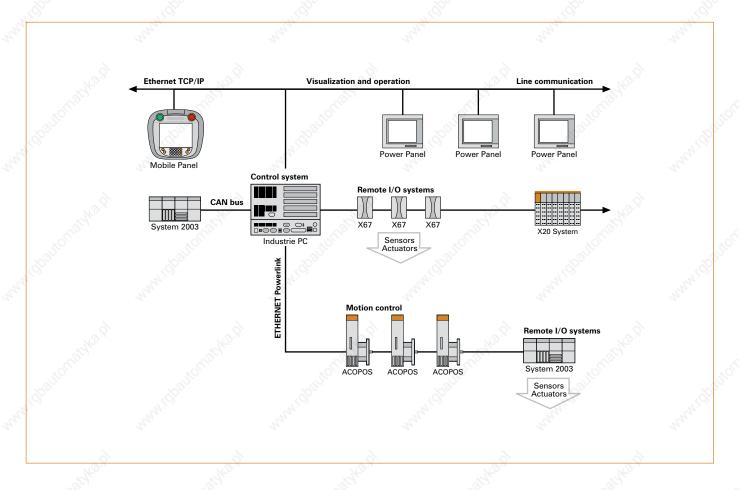


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Control system	System 2005: Embedded PC-based automation		
	IPC5000/5600: Compact industrial PCs		
Visualization and operation	Power Panel: Integrated control, operation, and visualization		
	IPC5000/5600: Compact industrial PCs		
Motion control	ACOPOS: Intelligent servo drives		
Distributed I/O systems	X20 System		
	X67 System: Remote I/O with IP67 protection		

# **Typical topologies**

### **Industrial PC as a server**

Windows XP Professional or Embedded runs on the industrial PC with real-time expansion for control and drive technology. Automation Runtime AR010 handles the control. Mobile Panel and Power Panel devices operate on Windows CE as thin clients. Communication to the industrial PC occurs via Ethernet TCP/IP and the Remote Desktop Protocol.



200		
Control system	IPC5000/5600: Compact industrial PCs	
Visualization and operation	Power Panel: Integrated control, operation, and visualization	
	Mobile Panel: More than just operation and monitoring	
Motion control	ACOPOS: Intelligent servo drives	
Distributed I/O systems	X20 System	
	X67 System: Remote I/O with IP67 protection	
	System 2003: Compact controllers, remote I/O	

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# **Product overview**

# **Device configuration**

# IPC5000C

60"	Model number	Description		Number / Combinat	tions	
System unit	5C5001.32	FDD connection	∄ 14	Select 1		
	5C5001.42	Remote CD-ROM connection	∄ 14			
Bus unit	5C5000.21	2 slots, 100-240 VAC	∄ 15	Select 1		
	5C5000.22	2 slots, 24 VDC	∄ 15			
	5C5000.31	5 slots, 100-240 VAC	∄ 15			
	5C5000.32	5 slots, 24 VDC	∄ 15			
Processor	5C5002.14	Intel Celeron 566 MHz		Select 1		
	5C5002.15	Intel Pentium III 600 MHz				
	5C5002.16	Intel Pentium III 850 MHz				
Memory	9A0004.11	64 MB PC100 DIMM module		Select up to 2		
	9A0004.12	128 MB PC100 DIMM module		(any combination)		
	9A0004.14	256 MB PC100 DIMM module				
Mass memory	5A5001.15	30 GB hard disk		Select 1		
	5A5001.16	30 GB hard disk / CompactFlash slot		CompactFlash is als	o necessary for 5A5002.02 and 5A5002.03.	
	5A5002.02	CompactFlash adapter, 2 slots				
	5A5002.03	CompactFlash adapter, 1 slot				
Drives	5A5009.01	CD-ROM drive		Optional, select a m	aximum of 1	
	5A5009.02	CD-RW drive		Note: Combining 5A	45001.16 with 5A5002.02 is not possible.	
Display units			∄ 16	Optional		

### IPC5600C

	Model number	Description		Number / Combinations		124
System unit	5C5601.32	FDD connection	∄ 14	Required		
Bus unit	5C5600.03	5 slots, 115/230 VAC	∄ 15	Select 1		
	5C5600.04	5 slots, 24 VDC	∄ 15			
Processor	5C5002.14	Intel Celeron 566 MHz		Select 1		
	5C5002.15	Intel Pentium III 600 MHz				
	5C5002.16	Intel Pentium III 850 MHz				
Memory	9A0004.11	64 MB PC100 DIMM module		Select up to 2		
	9A0004.12	128 MB PC100 DIMM module		(any combination)		
	9A0004.14	256 MB PC100 DIMM module				
Mass memory	5A5001.15	30 GB hard disk		Select up to 2		
	5A5002.03	CompactFlash adapter, 1 slot		CompactFlash is also nece	ssary for 5A5002.02 and 5A5002.03.	
Drives	5A5600.01	FDD drive		Optional, select a maximur	n of 1	
	5A5600.02	FDD/CD-ROM drive				
	5A5600.05	FDD/DVD-ROM drive				
	5A5600.07	FDD/CD-RW drive				
Display units			∄ 16	Optional		

# System units







Model number	Short description	
5C5001.32	Provit 5000 controller system unit	∄ 14
	For Intel Celeron and Pentium III processors, 4 MB video memory, Intel 82440 BX chipset, 3 DIMM slots, 2 serial interfaces, and 1 parallel interface.	
	Connections for FPD, monitor, PS/2 AT keyboard, PS/2 mouse, USB, external FDD, and Ethernet 10/100 (twisted pair). Without processor.	
5C5001.42	Provit 5000 controller system unit	∄ 14
	For Intel Celeron and Pentium III processors, 4 MB video memory, Intel 82440 BX chipset, 3 DIMM slots, 2 serial interfaces, and 1 parallel interface.	
	Connections for FPD, monitor, PS/2 AT keyboard, PS/2 mouse, USB, remote CD-ROM drives, and Ethernet 10/100 (twisted pair). Without processor.	
5C5601.32	Provit 5600 controller system unit	∄ 14
	For Intel Celeron and Pentium III processors, 4 MB video memory, Intel 82440 BX chipset, 3 DIMM slots, 2 serial interfaces, and 1 parallel interface.	
	Connections for FPD, monitor, PS/2 AT keyboard, PS/2 mouse, USB, external FDD, and Ethernet 10/100 (twisted pair). Without processor.	

# Bus units







Model number	Short description		
5C5000.21	Provit 5000 controller bus unit, 2 slots (1 BR PCI/ISA, 1 half-size PCI). Ready for add-on CD-ROM drive.	-60	∄ 15
	Supply voltage 100-240 VAC. For 5C5001.xx system units.		
5C5000.22	Provit 5000 controller bus unit, 2 slots (1 BR PCI/ISA, 1 half-size PCI). Ready for add-on CD-ROM drive.		∄ 15
	24 VDC supply voltage. For 5C5001.xx system units.		
5C5000.31	Provit 5000 controller bus unit, 5 slots (1 BR ISA, 1 half-size ISA, 1 half-size ISA/PCI, 2 half-size PCI).		∄ 15
	Prepared for add-on CD-ROM drive. 100 VAC supply voltage. For 5C5001.xx system units.		
5C5000.32	Provit 5000 controller bus unit, 5 slots (1 BR ISA, 1 half-size ISA, 1 half-size ISA/PCI, 2 half-size PCI).		∄ 15
	Prepared for add-on CD-ROM drive. 24 VDC supply voltage. For 5C5001.xx system units.		
5C5600.03	Provit 5600 controller bus unit, 5 slots (1 half-size ISA, 1 full-size ISA, 1 full-size ISA/PCI, 2 full-size PCI).		₿ 15
	115/230 VAC supply voltage. For 5C5601.xx system units.		
5C5600.04	Provit 5600 controller bus unit, 5 slots (1 half-size ISA, 1 full-size ISA, 1 full-size ISA/PCI, 2 full-size PCI).		∄ 15
	24 VDC supply voltage. For 5C5601.xx system units.		

# **Product overview**

### **Processors**

Model number	Short description
5C5002.14	Intel Celeron 566 MHz processor
	128 KB L2 cache, 66 MHz front side bus
	For 5C5001.1x, 5C5601.1x, 5C5001.2x, 5C5601.2x, 5C5001.3x, 5C5601.3x und 5C5001.4x system units; incl. heat sink and fans.
5C5002.15	Intel Pentium III 600 MHz processor
	256 KB L2 cache, 100 MHz front side bus
	For 5C5001.1x, 5C5601.1x, 5C5001.2x, 5C5601.2x, 5C5001.3x, 5C5601.3x und 5C5001.4x system units; incl. heat sink and fans.
5C5002.16	Intel Pentium III 850 MHz processor
	256 KB L2 cache, 100 MHz front side bus
	For 5C5001.1x, 5C5601.1x, 5C5001.2x, 5C5601.2x, 5C5001.3x, 5C5601.3x und 5C5001.4x system units; incl. heat sink and fans.

# Memory

Model number	Short description		.07
9A0004.11	DIMM module, 64 MB PC100 CL2		
9A0004.12	DIMM module, 128 MB PC100 CL2		
9A0004.14	DIMM module, 256 MB PC100 CL2		

# Mass memory

Model number	Short description	70.		
5A5001.15	30 GB Fujitsu hard disk (fixed)	.300°	.300	30%
5A5001.16	30 GB hard disk (fixed) / CompactFlash slot			
5A5002.02	Dual silicon disk adapter for CompactFlash with 2 slots for operating CompactFlash wit	ctFlash with the IPC5000C, IP	C5600C	
5A5002.03	Silicon disk adapter for CompactFlash with 1 slot for operating CompactFlash	h with the IPC5000C, IPC5600	OC .	

# Provit 10.4" display units







Model number	Short description	
5D5210.01	Provit 5000 display unit, 10.4* VGA TFT color display with touch screen (resistive), IP65 protection (front side).	∄ 16
5D5211.02	Provit 5000 display unit, 10.4* SVGA TFT color display with touch screen (resistive), IP65 protection (front side).	∄ 16
5D5510.10	Provit 5000 display unit, 10.4" VGA TFT color display, 23 function and 20 system keys, IP65 protection (front side).	∄ 17
5D5600.01	Provit 5600 display unit, 10.4* VGA TFT color display, 52 function and 26 system keys, PS/2 keyboard interface, IP65 protection (front side).	∄ 18
5D5600.02	Provit 5600 display unit, 10.4* VGA TFT color display with touchpad (resistive), 52 function and 26 system keys,	∄ 18
	PS/2 keyboard interface, IP65 protection (front side).	
5D5600.03	Provit 5600 display unit, 10.4* VGA TFT color display with touchpad (resistive), 52 function and 26 system keys,	∄ 18
	PS/2 keyboard interface, IP65 protection (front side).	

# Provit 12.1" display units





Model number	Short description Short description	
5D5211.03	Provit 5000 display unit, 12.1" SVGA TFT color display with touch screen (resistive), IP65 protection (front side).	∄ 19
5D5601.01	Provit 5600 display unit, 12.1" SVGA TFT color display, 52 function and 26 system keys, PS/2 keyboard interface, IP65 protection (front side).	₿ 20
5D5601.02	Provit 5600 display unit, 12.1" VGA TFT color display with touchpad (resistive), 52 function and 26 system keys,	∄ 20
	PS/2 keyboard interface, IP65 protection (front side).	
5D5601.03	Provit 5600 display unit, 12.1" VGA TFT color display with touch screen (resistive), 52 function and 26 system keys,	₿ 20
	PS/2 keyboard interface, IP65 protection (front side).	

### Provit 15" display units





Model number	Short description	
5D5212.02	Provit 5000 display unit, 15" XGA TFT color display with touch screen (resistive), IP65 protection (front side).	∄ 21
5D5212.04	Provit 5000 IP65 display unit, 15" XGA TFT color display with touch screen (resistive), IP65 protection (front side). 420 x 330 mm (W x H).	₿ 22

# System units

The system unit is the central component of the IPC5000C/IPC5600C. It contains a chipset, socket

It contains a chipset, socket for the processor and RAM as well as interfaces (serial, display, etc.).







Mainboard	5C5001.32	5C5001.42	5C5601.32
General information	Real-time clock, CMOS	backup in the FlashPROM, temperature monitoring	g (CPU, I/O, display unit)
BIOS	AWARD Elite BIOS, Plug and Play compatible	AWARD Elite BIOS, Plug and Play compatible	AWARD Elite BIOS,
			Plug and Play compatible
Processor socket	Socket 370	Socket 370	Socket 370
DRAM socket	2 x DIMM PC100, max. 512 MB	2 x DIMM PC100, max. 512 MB	2 x DIMM PC100, max. 512 MB
Slots (hard disk/CF adapter)	1	1,,	2
Interfaces	5C5001.32	5C5001.42	5C5601.32
COM1 / COM2	Serial I	RS232, 115 kBit/s, not electrically isolated, 9-pin DS	UB plug
LPT1	SPP, EPP,	and ECP mode, not electrically isolated, 25-pin DS	UB socket
USB	2 x USB 1.1 ports, connection type A	2 x USB 1.1 ports, connection type A	2 x USB 1.1 ports, connection type A
Keyboard	Enhanced AT PS/2	Enhanced AT PS/2	Enhanced AT PS/2
Mouse	PS/2	PS/2	PS/2
CRT	15-pin DSUB socket	15-pin DSUB socket	15-pin DSUB socket
Display (Panellink)	9-pin DSUB socket	9-pin DSUB socket	9-pin DSUB socket
Ethernet	1 x 10BaseT / 100BaseT	1 x 10BaseT / 100Base T	1 x 10BaseT / 100Base T
External disk drive	Yes	No	Yes
Remote IDE	No	Yes	No
Graphics	5C5001.32	5C5001.42	5C5601.32
VGA controller	ATI Rage Mobility M	ATI Rage Mobility M	ATI Rage Mobility M
Graphics memory	4 MB	4 MB	4 MB

Optional accessories					
5A2001.01	External 3.5" floppy disk drive	, beige front			
5A2001.02	Transparent door for external	floppy disk drive 5A2001.01 and 5A200	1.05, with lock, sealed with gask	et, IP55 protection (front	side)
5A2001.05	External 3.5" floppy disk drive	, black front			
5A5003.03	Front cover for remote CD-RC	OM drive 5A5003.07	Mg.	,	16.,
5A5003.07	Remote CD-ROM, incl. mount	ting bracket, no front cover, for connecti	ing to 5C5001.2x and 5C5601.2x	system units,	20,
	dimensions 156 x 52 x 164 m	m (W x H x D)			
A5009.01	Provit 5000 controller CD-RO	M, for 5C5000.2x and 5C5000.3x bus uni	its		
A5009.02	Provit 5000 controller CD-RW	, for 5C5000.2x and 5C5000.3x bus units			
A5600.01	Provit 5600 controller FDD, fo	r 5C5601.xx system units			
A5600.02	Provit 5600 controller FDD an	d CD-ROM, for 5C5601.xx system units	Na,	12th	24
A5600.05	Provit 5600 controller FDD an	d DVD-ROM, for 5C5601.xx system units	s		
A5600.07	Provit 5600 controller FDD an	d CD-RW, for 5C5601.xx system units			
A5603.01	Fan filters for 5C5600.0x, 10 p	nieces			
	AT keyboard (19")				
	Operating systems				
	CompactFlash cards				
				- 10	

Bus units added to the system units complete the housing. They contain PCI and ISA slots as well as the power supply.







Slots	5C5000.21	5C5000.22	5C5000.31	5C5000.32	5C5600.03	5C5600.04
Total	2	2	5	5	5	5
B&R ISA 16-bit 1)	1	1	1 0	1	O.	- 0
Half-size ISA 16-bit	-	74.	1 3	1	1	1 3
Half-size ISA 16-bit / PCI 32-bit	1 3	1	1 🕸	1 35	-	- 24,
Half-size PCI 32-bit	-	-	2	2	-	-
Full-size ISA 16-bit		A	-		1	1
Full-size ISA 16-bit / PCI 32-bit	- 70%	13%	-	502	1 38	1
Full-size PCI 32-bit	2 Apr	20/L	-	201/m	2	2
1) Standard 16-bit ISA interface, but with sp	ecific mechanical properties					
Supply voltage	5C5000.21	5C5000.22	5C5000.31	5C5000.32	5C5600.03	5C5600.04
Input voltage	100 - 240 VAC	24 VDC	100 - 240 VAC	24 VDC	100 - 240 VAC	24 VDC

Supply voltage		5C5000.21	505000.22	5C5000.5 I	505000.32	505000.03	505000.04	1
Input voltage	.1087	100 - 240 VAC	24 VDC	100 - 240 VAC	24 VDC	100 - 240 VAC	24 VDC	
		50 - 60 Hz		50 - 60 Hz		50 - 60 Hz		
Fans		5C5000.21	5C5000.22	5C5000.31	5C5000.32	5C5600.03	5C5600.04	
Type / Design	1,	Ball beari	ngs, analog control	Ball beari	ngs, analog control	Ball beari	ngs, analog control	
Number								
ø 40 mm		2	2	1	1	9		
ø 50 mm		100	-	2	10	10,0	-	
ø 80 mm		10%	- 8	-	7.77,	1 20	1	

Optional	accessories

9A0001.03 Power cable for IPC5000 / 5600, length 2 m, with standard German plu

# Provit 5000 10.4" display units with touch screen





Display	5D5210.01	5D5211.02		
Туре	TFT color	TFT color	7.52	w.
Colors	262,144	262,144		
Resolution	VGA, 640 x 480 pixels	SVGA, 800 x 600 pixels		
Diagonal	10.4"	10.4"		
Brightness	200 cd/m <sup>2</sup>	280 cd/m <sup>2</sup>		
Half-brightness time	50,000 h	55,000 h		
Touch screen	Analog resistive	Analog resistive		
Interfaces	5D5210.01	5D5211.02	29	
Display	Panellink (IPC5000C/IPC5600C)	Panellink (IPC5000C/IPC5600C)	- Co	
Touch	RS232	RS232		
Distance	Max. 10 m	Max. 10 m		
) Only remote operation is possible wit	h the IPC5600C due to its mechanical dimensions.			
man tanana and a sample and a sample and a	O ====================================	EDE044.00		647

Environmental conditions	5D5210.01	5D5211.02		
Temperature	2,	2,	20	20
Operation	0 to 50°C	0 to 50°C		
Storage	-20 to +60°C	-20 to +60°C		
Relative humidity				
Operation	5 - 85%, non-condensing	5 - 85%, non-condensing		
Storage	T ≤ 40°C: 5% to 90%, non-condensing	$T \le 40^{\circ}C$ : 5% to 90%, non-condensing		
	T > 40°C: < 90%, non-condensing	T > 40°C: < 90%, non-condensing		
Mechanics	5D5210.01	5D5211.02		
Protection type	IP65 (front side)	IP65 (front side)		
	IP20 (back side)	IP20 (back side)		
Outer dimensions (W x H x D [mm])	310 x 236 x 45	310 x 236 x 45		
Weight	Approx. 2 kg	Approx. 2.4 kg		

Optional accessories <sup>1)</sup>		
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.	27,
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.	
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.	
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug.	
9A0014.05	RS232 extension cable for remote operation of a display unit with touch screen, length 5 m.	
9A0014.10	RS232 extension cable for remote operation of a display unit with touch screen, length 10 m.	

<sup>1)</sup> Attachment cable (30 cm) for the display and touch screen are included with the delivery of display units



200	200	1000	A	VC
Display	5D5510.10			
Туре	TFT color			
Colors	262,144			
Resolution	VGA, 640 x 480 pixels			
Diagonal	10.4"			
Brightness	200 cd/m <sup>2</sup>			
Half-brightness time	50,000 h			
Keys	5D5510.10	38 <sup>2</sup>		30 <sup>22</sup>
Function keys	23, with LEDs	-dr	29,0	- Th.
System keys	20			
Interfaces	5D5510.10	9	9	\$ S
Display	Panellink (IPC5000C/IPC5600C) 1	100	303	1000
Distance	Max. 10 m			

Distance	Max. 10 m			
1) Only remote operation is possible with the	PC5600C due to its mechanical dimensions.			
Environmental conditions	5D5510.10			
Temperature				
Operation	0 to 50°C			
Storage	-20 to +60°C			
Relative humidity				
Operation	5 - 85%, non-condensing			
Storage	T ≤ 40°C: 5% to 90%, non-condensing			
	T > 40°C: < 90%, non-condensing			
Mechanics	5D5510.10			
Protection type	IP65 (front side)	74,	72,	
	IP20 (back side)			
Outer dimensions (W x H x D [mm])	310 x 387 x 38			
Weight	Approx. 3.7 kg			

Optional accessories <sup>1)</sup>	The state of the s	T <sub>Li</sub> ,	3	Ly.
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.			
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.			
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.			
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug.			
5A2500.09	A4 slide-in legend strip template for display units 5D2510.10, 5D2510.22, and 5D55	510.10, 1 sheet, with CorelDraw	template.	₿ 29

<sup>1)</sup> Attachment cable (40 cm) for the display and touch screen are included with the delivery of display unit

# Provit 5600 10.4" display units







Display	5D5600.01	5D5600.02	5D5600.03
Туре	TFT color	TFT color	TFT color
Colors	262,144	262,144	262,144
Resolution	VGA, 640 x 480 pixels	VGA, 640 x 480 pixels	VGA, 640 x 480 pixels
Diagonal	10.4"	10.4"	10.4"
Brightness	200 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>
Half-brightness time	50,000 h	50,000 h	50,000 h
Touch	- 202	Touchpad	Analog resistive touch screen
Keys	5D5600.01	5D5600.02	5D5600.03
Function keys	46, with LEDs	46, with LEDs	46, with LEDs
System keys		Number pad, cursor pad, 6 Windows system ke	ys
nterfaces	5D5600.01	5D5600.02	5D5600.03
Display	Panellink (IPC5000C/IPC5600C)	Panellink (IPC5000C/IPC5600C)	Panellink (IPC5000C/IPC5600C)
Touchpad / touch screen	- 42	RS232	RS232
Distance	Max. 10 m	Max. 10 m	Max. 10 m
Other	5D5600.01	5D5600.02	5D5600.03
Reset button	6	Accessible behind front cover	8
AT keyboard (PS/2)		Socket accessible behind front cover	
FDD panel		Optional, accessible behind front cover (maximum dista	nce 1.8 m)
PC5600C integrated drive		Accessible behind front cover if the display unit and PC are m	ounted together
Environmental conditions	5D5600.01	5D5600.02	5D5600.03
Operational temperature	100	0 to 50°C	
Storage temperature		-20 to +60°C	
Relative humidity - operation		5 - 85%, non-condensing	
Relative humidity - storage		$T \le 40^{\circ}C$ : 5% to 90%, non-condensing, $T > 40^{\circ}C$ : < 90%, non-condensing	on-condensing
Mechanics	5D5600.01	5D5600.02	5D5600.03
Protection type	0	IP65 (front side), IP20 (back side)	Q°
Outer dimensions (W x H x D [mm])	482 x 310 x 31 (19 inch x 7 HU)	482 x 310 x 31 (19 inch x 7 HU)	482 x 310 x 31 (19 inch x 7 HU)
Weight	Approx. 4.5 kg	Approx. 4.5 kg	Approx. 4.5 kg

Optional accessories 1)				
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.			
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.	- Ty.,		
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.	26,	274	200
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug	g.		
5A5600.03	Provit 5600 FDD panel, for display units 5D560x.xx.			
5A5602.01	A4 slide-in 10.4" legend strip template for 5D5600.0x display units, 1 she	eet, with CorelDraw template.		 ₿ 29
9A0014.05	RS232 extension cable for remote operation of a display unit with touch	screen, length 5 m.		
9A0014.10	RS232 extension cable for remote operation of a display unit with touch	screen, length 10 m.		

<sup>1)</sup> Attachment cable (40 cm) for the display and touch screen are included with the delivery of display units.

# Provit 5000 12.1" display unit with touch screen



Display	5D5211.03				
Туре	TFT color				.85
Colors	262,144				
Resolution	SVGA, 800 x 600 pixels				
Diagonal	12.1"				
Brightness	300 cd/m <sup>2</sup>				
Half-brightness time	50,000 h				
Touch screen	Analog resistive				
Interfaces	5D5211.03				
Display	Panellink (IPC5000C/IPC5600C)	Kio.	Ç.	No.	-40
Touch	RS232				
Distance	Max. 10 m				
1) Only remote operation is possible with the	he IPC5600 due to its mechanical dimensions				

Environmental conditions	5D5211.03			
Temperature	25,	23	74	20
Operation	0 to 50°C			
Storage	-20 to +60°C			
Relative humidity				
Operation	5 - 85%, non-condensing			
Storage	T ≤ 40°C: 5% to 90%, non-condensing			
	T > 40°C: < 90%, non-condensing			
Mechanics	5D5211.03			
Protection type	IP65 (front side)		74/2	
	IP20 (back side)			
Outer dimensions (W x H x D [mm])	379 x 300 x 50			
Weight	Approx. 4.1 kg			

Optional accessories 1)			
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.		
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.		
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.		
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug.		
9A0014.05	RS232 extension cable for remote operation of a display unit with touch screen, length	h 5 m.	
9A0014.10	RS232 extension cable for remote operation of a display unit with touch screen, length	h 10 m.	
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# Provit 5600 12.1" display units







Display	5D5601.01	5D5601.02	5D5601.03
Туре	TFT color	TFT color	TFT color
Colors	262,144	262,144	262,144
Resolution	SVGA, 800 x 600 pixels	SVGA, 800 x 600 pixels	SVGA, 800 x 600 pixels
Diagonal	12.1"	12.1"	12.1"
Brightness	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Half-brightness time	50,000 h	50,000 h	50,000 h
Touch	- 322	Touchpad	Analog resistive touch screen
Keys	5D5600.01	5D5600.02	5D5600.03
Function keys	46, with LEDs	46, with LEDs	46, with LEDs
System keys		Number pad, cursor pad, 6 Windows system key	vs (O)
nterfaces	5D5600.01	5D5600.02	5D5600.03
Display	Panellink (IPC5000C/IPC5600C)	Panellink (IPC5000C/IPC5600C)	Panellink (IPC5000C/IPC5600C)
Touchpad / touch screen	- 112	RS232	RS232
Distance	Max. 10 m	Max. 10 m	Max. 10 m
Other	5D5600.01	5D5600.02	5D5600.03
Reset button		Accessible behind front cover	
AT keyboard (PS/2)		Socket accessible behind front cover	
FDD panel		Optional, accessible behind front cover (maximum distar	nce 1.8 m)
IPC5600C integrated drive		Accessible behind front cover if the display unit and PC are mo	ounted together
Environmental conditions	5D5601.01	5D5601.02	5D5601.03
Operational temperature	10,0	0 to 50°C	
Storage temperature		-20 to +60°C	
Relative humidity - operation		5 - 85%, non-condensing	
Relative humidity - storage		$T \le 40^{\circ}\text{C}$ : 5% to 90%, non-condensing, $T > 40^{\circ}\text{C}$ : < 90%, no	on-condensing
Mechanics	5D5601.01	5D5601.02	5D5601.03
Protection type	IP65 (front side)	IP65 (front side)	IP65 (front side)
	IP20 (back side)	IP20 (back side)	IP20 (back side)
Outer dimensions (W x H x D [mm])	482 x 310 x 31 (19 inch x 7 HU)	482 x 310 x 31 (19 inch x 7 HU)	482 x 310 x 31 (19 inch x 7 HU)
Weight	Approx. 4.5 kg	Approx. 4.5 kg	Approx. 4.5 kg

Optional accessories 1)		CO CO	S. S	(8)
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.			747,
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.			77,
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.			
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug.			
5A5602.02	A4 slide-in 12.1" legend strip template for 5D5601.0x display units, 1 sheet	, with CorelDraw template.		₿ 29
9A0014.05	RS232 extension cable for remote operation of a display unit with touch so	creen, length 5 m.		
9A0014.10	RS232 extension cable for remote operation of a display unit with touch so	creen, length 10 m.		

<sup>1)</sup> Attachment cable (40 cm) for the display and touch screen are included with the delivery of display units

# Provit 5000 15" display unit with touch screen



Display	5D5212.02			
Type	TFT color			
Colors	262,144			
Resolution	XGA, 1024 x 768 pixels			
Diagonal	15"			
Brightness	200 cd/m <sup>2</sup>			
Half-brightness time	50,000 h			
Touch screen	Analog resistive			
Interfaces	5D5212.02			
Display	Panellink (IPC5000C/IPC5600C)	Kio Kio	4,0	20
Touch	RS232			
Distance	Max. 10 m			
1) Mounting on IPC5600 only possible using	a separate cable set (model no. 5A5601.02)			

Nounting on IPC5600 only possible using a separate cable set (model no. 5A5601.02)	1) Mounting on IPC5600 only possible using a separate cable set (model no. 5A	5601.02)
------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	----------

Environmental conditions	5D5212.02	.674	-120°	- Sa
Temperature	14	77	1/2	20
Operation	0 to 50°C, depending on installation			
Storage	-20 to +60°C			
Relative humidity				
Operation	5 - 85%, non-condensing			
Storage	T ≤ 40°C: 5% to 90%, non-condensing			
	T > 40°C: < 90%, non-condensing			
Mechanics	5D5212.02			
Protection type	IP65 (front side)		~41.	
	IP20 (back side)			
Outer dimensions (W x H x D [mm])	435 x 330 x 51			
Weight	Approx. 5.4 kg			

Optional accessories 1)		
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000/5600.	
5A5004.06	Remote panel cable 5 m, 1 x 70°, for Provit 5000/5600, with angled plug.	
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 5000/5600.	
5A5004.11	Remote panel cable 10 m, 1 x 70°, for Provit 5000/5600, with angled plug.	
9A0014.05	RS232 extension cable for remote operation of a display unit with touch screen, length 5 m.	
9A0014.10	RS232 extension cable for remote operation of a display unit with touch screen, length 10 m.	

# Provit 5000 15" display unit with touch screen



Display	5D5212.04	<u> </u>	, (°)	
Type	TFT color			
Colors	262,144			
Resolution	XGA, 1024 x 768 pixels			
Diagonal	15"			
Brightness	200 cd/m <sup>2</sup>			
Half-brightness time	50,000 h			
Touch screen	Analog resistive			
Interfaces	5D5212.04			
Display	Panellink (IPC5000C/IPC5600C)			
Touch	RS232			
Distance	Max. 10 m			20%
Environmental conditions	5D5212.04			
Temperature				
Operation	0 to 50°C, depending on installation			
Storage	-20 to +60°C			
Relative humidity				
Operation	5 - 85%, non-condensing			
Storage	T ≤ 40°C: 5% to 90%, non-condensing			
	T > 40°C: < 90%, non-condensing			
Mechanics	5D5212.04			
Protection type	IP65 (front side)			
	IP20 (back side)			
Outer dimensions (W x H x D [mm])	420 x 330 x 38			
Weight	Approx. 5.5 kg			

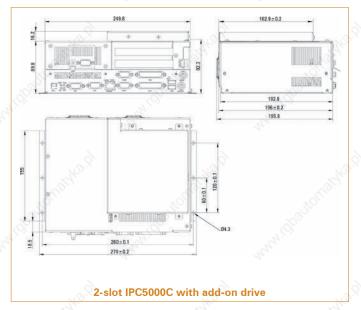
4	72	7.0	77.0	7,0
Optional accessories 1)				- A
5A5004.05	Remote CD-ROM / display cable, length 5 m, for Provit 5000	0/5600.		
5A5004.10	Remote CD-ROM / display cable, length 10 m, for Provit 500	00/5600.		2
5A5007.01	Panel flange adapter type A for display unit 5D5212.04			7.8%
9A0014.05	RS232 extension cable for remote operation of a display un	it with touch screen, length 5 m.		25%
9A0014.10	RS232 extension cable for remote operation of a display un	it with touch screen, length 10 m.		300

<sup>1)</sup> Attachment cable (40cm) for the display and touch screen are included with the delivery of display units

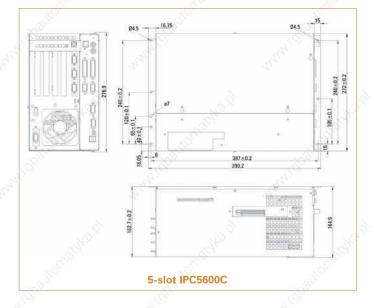
# General technical data

General technical data	IPC5000C	IPC5600C	
Standards / Compliance	3	9	
Temperature	IEC 61131-2 / IEC 60068-2-x	IEC 61131-2 / IEC 60068-2-x	
Shock / Tests carried out	IEC 61131-2 / IEC 60068-2-27 (except hard disk)	IEC 61131-2 / IEC 60068-2-27 (except hard disk)	
Vibration / Tests carried out	IEC 61131-2 / IEC 60068-2-6 (except hard disk)	IEC 61131-2 / IEC 60068-2-6 (except hard disk)	
Emission / Tests carried out	EN 50081-2 / EN 55022+A1	EN 50081-2 / EN 55022+A1	
Immunity / Tests carried out	IEC 61131-2 / IEC 61000-4-x	IEC 61131-2 / IEC 61000-4-x	
Protection type	IP20	IP20	
Mounting orientation	Vertical, ±45°	Vertical, ±45°	
Operation			
Temperature	0 to 50°C	0 to 50°C	
Relative humidity	5 to 95% (non-condensing)	5 to 95% (non-condensing)	
Weight			
2-slot design	Approx. 3.9 kg	Approx. 7.9 kg	
5-slot design	Approx. 5 kg		
Measurements (W x H x D [mm])			
2-slot design	270 x 92.4 x 196		
5-slot design	270 x 157.4 x 196	276.9 x 164.9 x 399.2	

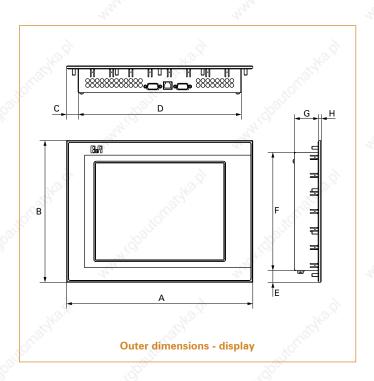
# **Dimensions**







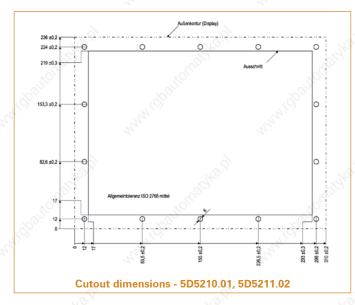
All dimensions in mm

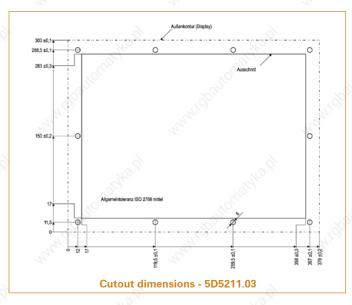


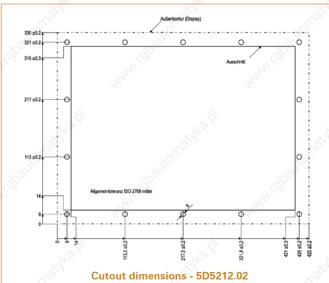
Model number	A	В	C	D	E	F	G	H
5D5210.01	310	236	19.1	271.8	19.6	196.8	41	4
5D5211.02	310	236	19.1	271.8	19.6	196.8	41	4
5D5211.03	379	300	21	337	20.5	259	39.5	5
5D5212.02	435	330	16	403	16	298	39.8	6
5D5510.10	310	387	19.1	271.8	31.3	336.9	40.5	4
5D5600.01	482.6	310.4	28	436.5	16	278	23.3	8
5D5600.02	482.6	310.4	28	436.5	16	278	23.3	8
5D5600.03	482.6	310.4	28	436.5	16	278	23.3	8
5D5601.01	482.6	310.4	28	436.5	16	278	23.3	8
5D5601.02	482.6	310.4	28	436.5	16	278	23.3	8
5D5601.03	482.6	310.4	28	436.5	16	278	23.3	8 (0)

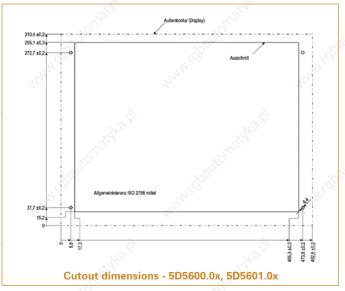
All dimensions in mm

# **Dimensions**





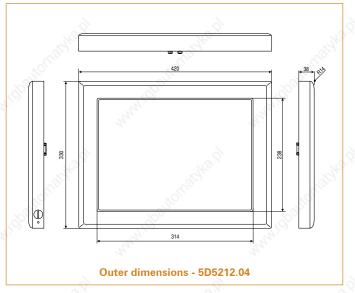


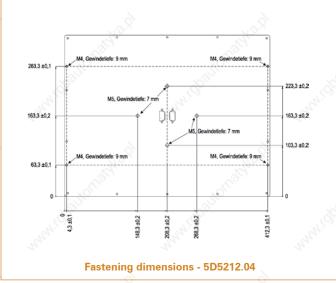


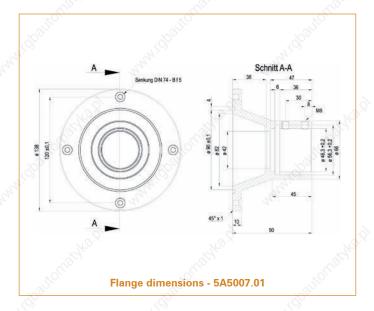
All dimensions in mr

Cutout dimensions - 5D5510.10

# **Dimensions**







All dimensions in mn

# Legend strips

# Model number 5A2500.09 Legend strip template 10.4\*. For display units 5D2510.10, 5D2510.22 and 5D5510.10. For 2 devices.



model number	Onort accomption										
5A5602.02	Legend strip template 1	2.1".									
	For display units 5D560	I.01, 5D5601.02 and 5D5601.03. Fo	1 device.								
- Aro	M.O.		- Ato	7				Mis			
Mar.											
0,	10		Function keys				(O),				- 10,
			with legend strips								2000
	76 July 1	*****				9	•	•	•		0,
	The state of the s				CA.					12	
3		000	System keys	-	20					-70	
Function	kevs	0000									
with legend s		000		Ò .	•	•	•		ò.		i
7/0	0-0-0-0-0-0-0 0 0 0 0 0 0 0 0	0 0 0 0						110			
Napo.	° E	Managara &									
$\phi_{\ell_{\ell_{\ell}}}$	10	10,									
					_	-07/					-07

# Accessories Product overview

### **Terminal blocks**



Model number	Short description				
0TB103.8	Connector, 24 VDC, 3-pin ma	ale, screw clamps, 3.31 mm², pro	tected against vibration by the screw fla	inge 🗎 34	
0TB103.9	Connector, 24 VDC, 3-pin fer	male, screw clamps, 3.31 mm², p	rotected against vibration by the screw f	flange 🗎 34	
0TB103.91	Connector, 24 VDC, 3-pin fer	male, cage clamps, 3.31 mm², pr	otected against vibration by the screw fla	ange 🗎 34	
0TB704.9	Terminal block, 4-pin, screw	clamps, 1.5 mm <sup>2</sup>		∄ 35	
0TB704.91	Terminal block, 4-pin, cage of	clamps, 2.5 mm²		∄ 35	
0TB2105.9010	Terminal block, 5-pin, screw	clamps, 1.5 mm <sup>2</sup>		₿ 36	
0TB2105.9110	Terminal block, 5-pin, cage of	clamps, 2.5 mm²		∄ 36	
0TB708.91	Terminal block, 8-pin, cage of	clamps, 1.5 mm²		∄ 37	
0TB710.91	Terminal block, 10-pin, cage	clamps, 1.5 mm <sup>2</sup>		∄ 38	
7TB710.9	Terminal block, 10-pin, screv	v clamps, 1.5 mm <sup>2</sup>		∄ 39	
7TB710.91	Terminal block, 10-pin, cage	clamps, 2.5 mm <sup>2</sup>		∄ 39	
0TB1111.8010	Terminal block, 11-pin, screv	v clamps, 1.5 mm², protected ag	ainst vibration by the screw flange	∄ 40	
0TB1111.8110	Terminal block, 11-pin, cage	clamps, 1.5 mm <sup>2</sup> , protected aga	inst vibration by the screw flange	∄ 40	
7TB712.9	Terminal block, 12-pin, screv	v clamps, 1.5 mm²		∄ 41	
7TB712.91	Terminal block, 12-pin, cage	clamps, 1.5 mm <sup>2</sup>		∄ 41	
7TB718.9	Terminal block, 18-pin, screv	w clamps, 1.5 mm²		∄ 42	
7TB718.91	Terminal block, 18-pin, cage	clamps, 1.5 mm <sup>2</sup>		∄ 42	

### Infrastructure components



Model number	Short description		
0AC808.9	8x industrial hub (Layer 2), 24 VDC, 10/100 MBit/s with auto	-sensing, MDIX switch for channel 1	₿ 43
0AC401.9	Encoder 5 V - 24 V, converter for 5 V encoders (abs. or incr.	. O	₿ 44
0AC912.9	Bus adapter, CAN, 1 CAN interface		₿ 46
0AC913.92	Bus adapter, CAN, 2 CAN interfaces, including 30 cm conne	ection cable (DSUB connector)	₿ 46
0AC913.93	Bus adapter, CAN, 2 CAN interfaces, including 30 cm conne	ection cable (TB704)	₿ 46
0G1000.00-090	Bus connector, RS485, for Profibus networks		₿ 44
7AC911.9	Bus connector, CAN bus		₿ 44
ECINT1-1	RS232/RS485 interface converter, electrically isolated, for c	oupling RS232 interface modules	₿ 45
	to an RS485 twisted pair bus, without lightning protection		
ECINT1-11	RS232/RS485 interface converter, electrically isolated, for c	oupling RS232 interface modules	₿ 45
	to an RS485 twisted pair bus, with lightning protection		

### CompactFlash



Model number	Short description			
5CFCRD.0064-03	CompactFlash 64 MB ATA/IDE SiliconSystems	12.	10.	
5CFCRD.0128-03	CompactFlash 128 MB ATA/IDE SiliconSystems			
5CFCRD.0256-03	CompactFlash 256 MB ATA/IDE SiliconSystems			
5CFCRD.0512-03	CompactFlash 512 MB ATA/IDE SiliconSystems			
5CFCRD.1024-03	CompactFlash 1024 MB ATA/IDE SiliconSystems			
5CFCRD.2048-03	CompactFlash 2048 MB ATA/IDE SiliconSystems			
5CFCRD.4096-03	CompactFlash 4096 MB ATA/IDE SiliconSystems			
5CFCRD.8192-03	CompactFlash 8192 MB ATA/IDE SiliconSystems			

### PC cards



Model number	Short description	70%	
0MC111.9	PC card, 2 MB FlashPROM	161° 161°	à
0MC112.9	PC card, 4 MB FlashPROM		
0MC211.9	PC card, 2 MB SRAM		
9A0015.99	CompactFlash adapter; for operating CompactFlash in a PC	card slot	

### **USB** accessories







Model number	Short description			
5MD900.USB2-01	USB 2.0 drive combination, consists of DVD-ROM/CD-RW, FD type B back); 24 VDC; (screw clamp 0TB103.9 or cage clamp	1 11.33	, USB connection (type A front,	∄ 47
5A5003.03	Front cover for USB drive combination 5MD900.USB2-01			
5CAUSB.0018-00	USB 2.0 cable type A-B; 1.8 m			
5CAUSB.0050-00	USB 2.0 cable type A-B; 5 m			
5MMUSB.0256-00	USB 2.0 flash drive 256 MB			
5MMUSB.0512-00	USB 2.0 flash drive 512 MB			
5MMUSB.1024-00	USB 2.0 flash drive 1024 MB			

# Accessories Product overview

### Cable

Model number	Short description	
0G0001.00-090	Cable PC <-\> PLC/PW, RS232, online cable	
0G0010.00-090	Cable I/O bus expansion, 1 m, bus expansion for System 2005	
0G0012.00-090	Cable I/O bus expansion, 2 m, bus expansion for System 2005	
9A0017.01	Null modem cable RS232, 0.6 m, for connecting UPS and IPC	
9A0017.02	Null modem cable RS232, 1.8 m, for connecting UPS and IPC	
X20CA0E61.0002	EPL connection cable RJ45 to RJ45, 0.2 m	₿ 48
X20CA0E61.0010	EPL connection cable RJ45 to RJ45, 1.0 m	<b>≜</b> 48
X20CA0E61.0020	EPL connection cable RJ45 to RJ45, 2.0 m	₿ 48
X20CA0E61.0050	EPL connection cable RJ45 to RJ45, 5.0 m	<b>≜</b> 48
X20CA0E61.0100	EPL connection cable RJ45 to RJ45, 10.0 m	<b>≜ 48</b>
X20CA0E61.0150	EPL connection cable RJ45 to RJ45, 15.0 m	<b>≜</b> 48
X20CA0E61.0500	EPL connection cable RJ45 to RJ45, 50.0 m	<b>≜</b> 48
X67CA0E41.0050	EPL attachment cable RJ45 to M12, 5.0 m	<b>≜</b> 48
X67CA0E41.0150	EPL attachment cable RJ45 to M12, 15.0 m	<b>≜</b> 48
X67CA0E41.0500	EPL attachment cable RJ45 to M12, 50.0 m	<b>≜</b> 48
X67CA0X99.1000	Cable for custom prefabrication, 100.0 m	

### 19" AT keyboard



Model number	Short description	28,	
5E9600.01-010	AT keyboard, 19 inch, front mount installation, IP65 from front, German keyboard layout	₿ 50	)
5E9600.01-020	AT keyboard, 19 inch, front mount installation, IP65 from front, US keyboard layout	₿ 50	)

### **Batteries**

Model number	Short description	A	
0AC200.9	Lithium batteries, 5 pcs., 3 V / 950 mAh, cylindrical battery		
0AC201.9	Lithium batteries, 5 pcs., 3 V / 950 mAh, button cell		
4A0006.00-000	Lithium batteries, 3 V / 950 mAh, button cell		

# Other

Model number	Short description		
0AC171.9	Glass tube fuses 5 x 20 mm, 20 pcs., 3.15 A T / 250 V	The state of the s	The same
0AC301.9	Accessory, 8x shielding clamp		₿ 49
5AC900.1100-00	Touch screen pen (5x)		
9A0013.01	Pen for resistive touch screen		

Data sheets for product-specific accessories can be found in the sections for the respective product families.

elkaid MANN TO MANN TO HANN ICI MANN TO MANN TO ALANNI JOJ Accessories JK3.91

# Terminal blocks

The single-row 3-pin terminal block TB103 is used to connect the supply voltage.







Brief overview	0TB103.8	0TB103.9	0TB103.91
Number of pins	3 (male)	3 (female)	3 (female)
Type of terminal	Screw clamps	Screw clamps	Cage clamps
Distance between contacts	5.08 mm	5.08 mm	5.08 mm
Contact resistance	≤5 mΩ	≤5 mΩ	≤5 mΩ
Rated voltage	300 V	300 V	300 V
Rated current <sup>1)</sup>	10 A / contact	10 A / contact	10 A / contact
Connection cross section			
AWG lines	22 - 12 AWG	TBD AWG	26 - 12 AWG
Solid wire lines	0.20 - 2.50 mm <sup>2</sup>	0.20 - 2.50 mm <sup>2</sup>	0.20 - 2.50 mm <sup>2</sup>
Fine wire lines without wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>	0.20 - 2.50 mm <sup>2</sup>
Fine wire lines with wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>
Wire tip sleeves with plastic covering	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>
Cable type	Copper wires only (no aluminum wires!)	Copper wires only (no aluminum wires!)	Copper wires only (no aluminum wires!)
Comment	Protected against vibration by the screw	Protected against vibration by the screw	Protected against vibration by the screw
	flange	flange	flange
	Rated values according to UL	Rated values according to UL	Rated values according to UL

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration.

# **Terminal blocks**

The single-row 4-pin terminal block TB704 is used as the supply voltage terminal block and the connection terminal for fieldbuses.





Brief overview	0TB704.9	.200	0TB704.91 <sup>1)</sup>	.20
Number of pins	4 21.	"Aj	4	27.
Type of terminal	Screw clamps		Cage clamps	
Distance between contacts	5.08 mm		5.08 mm	
Contact resistance	≤5 mΩ		≤5 mΩ	
Rated voltage	300 V		300 V	
Rated current <sup>2)</sup>	10 A / contact		10 A / contact	
Connection cross section				
AWG lines	TBD AWG		26 - 12 AWG	
Solid wire lines	0.20 - 2.50 mm <sup>2</sup>		0.20 - 2.50 mm <sup>2</sup>	
Fine wire lines without wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>		0.20 - 2.50 mm <sup>2</sup>	
Fine wire lines with wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>		0.20 - 1.50 mm <sup>2</sup>	
Wire tip sleeves with plastic covering	0.20 - 1.50 mm <sup>2</sup>		0.20 - 1.50 mm <sup>2</sup>	
Cable type	Copper wires only (no aluminun	n wires!)	Copper wires only (no aluminum wi	res!)
Comment	Rated values according to UI		Rated values according to UI	

<sup>1)</sup> The terminal block in the cage clamp design cannot be added together.

<sup>2)</sup> The respective limit data for the I/O modules must be taken into consideration

# **Terminal blocks**

The single-row 5-pin terminal block TB2105 is also used as a connection terminal for fieldbuses.





Brief overview	0TB2105.901	10	.70°	OTB2105.9110 <sup>1)</sup>	200	.80
Number of pins	5	M.	.41.	5	.42.	14/1
Type of terminal	Screw clamp	os		Cage clamps		
Distance between contacts	5.08 mm			5.08 mm		
Contact resistance	≤5 mΩ			≤5 mΩ		
Rated voltage	300 V			300 V		
Rated current <sup>2)</sup>	10 A / contact	ct Alexander		10 A / contact		
Connection cross section						
AWG lines	TBD AWG			26 - 12 AWG		
Solid wire lines	0.20 - 2.50 m	nm²		0.20 - 2.50 mm <sup>2</sup>		
Fine wire lines without wir	e tip sleeves 0.20 - 1.50 m	nm²		0.20 - 2.50 mm <sup>2</sup>		
Fine wire lines with wire tip	p sleeves 0.20 - 1.50 m	nm²		0.20 - 1.50 mm <sup>2</sup>		
Wire tip sleeves with plast	ic covering 0.20 - 1.50 m	nm²		0.20 - 1.50 mm <sup>2</sup>		
Cable type	Copper wire	s only (no aluminum wires!)		Copper wires only (	no aluminum wires!)	
Comment	Rated values	according to UL		Rated values accord	ding to UL	

<sup>1)</sup> The terminal block in the cage clamp design cannot be added together.

<sup>2)</sup> The respective limit data for the I/O modules must be taken into consideration.

The single-row 8-pin terminal block TB708 is used for making connections on various B&R modules.



Brief overview	0TB708.91	.200	.200	.80°
Number of pins	8		.32.7	74/2
Type of terminal	Cage clamps			
Distance between contacts	3.5 mm			
Contact resistance	≤4.2 mΩ			
Rated voltage	300 V			
Rated current <sup>1)</sup>	10 A / contact			
Connection cross section				
AWG lines	26 - 14 AWG			
Solid wire lines	0.20 - 1.50 mm <sup>2</sup>			
Fine wire lines without wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>			
Fine wire lines with wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>			
Wire tip sleeves with plastic covering	0.20 - 1.00 mm <sup>2</sup>			
Cable type	Copper wires only (no aluminum	n wires!)		
Comment	Mechanical removal help			
	Rated values according to UL			

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration

The single-row 10-pin terminal block 0TB710 is used for making connections on an XV module.



Brief overview	0ТВ7	10.91	.32	187	- 60
Number of pins	10	Mr.	47.7	47	7/1
Type of terminal	Cage	clamps			
Distance between contacts	3.5 m	m			
Contact resistance	≤4.2	mΩ			
Rated voltage	300 \	25,			
Rated current <sup>1)</sup>	10 A	/ contact			
Connection cross section					
AWG lines	26 - 1	4 AWG			
Solid wire lines	0.20	1.50 mm <sup>2</sup>			
Fine wire lines without wire	tip sleeves 0.20	1.50 mm <sup>2</sup>			
Fine wire lines with wire tip	sleeves 0.20	1.50 mm²			
Wire tip sleeves with plastic	covering 0.20	1.00 mm <sup>2</sup>			
Cable type	Сорр	er wires only (no aluminum wire	s!)		
Comment	Mech	anical removal help			
	Rated	I values according to UI			

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration.

The single-row 10-pin terminal block 7TB710 is used to connect I/O modules.





Brief overview	7TB710.9	.80°	7TB710.91	.20"
Number of pins	10	14/	10	M.
Type of terminal	Screw clamps		Cage clamps	
Distance between contacts	5.08 mm		5.08 mm	
Contact resistance	≤2 mΩ		≤5 mΩ	
Rated voltage	300 V		300 V	
Rated current 1)	10 A / contact		10 A / contact	
Connection cross section				
AWG lines	24 - 12 AWG		26 - 12 AWG	
Solid wire lines	0.20 - 2.50 mm <sup>2</sup>		0.20 - 2.50 mm²	
Fine wire lines without wire tip sleeves	0.20 - 2.50 mm <sup>2</sup>		0.20 - 2.50 mm <sup>2</sup>	
Fine wire lines with wire tip sleeves	0.25 - 2.50 mm <sup>2</sup>		0.20 - 1.50 mm²	
Wire tip sleeves with plastic covering	0.25 - 2.50 mm <sup>2</sup>		0.20 - 1.50 mm <sup>2</sup>	
Cable type	Copper wires only (no aluminum v	wires!)	Copper wires only (no aluminum wires!)	
Comment	Rated values according to UL		Rated values according to UL	

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration

The single-row 11-pin terminal block TB1111 is used for making connections on various B&R modules.





Brief overview	0TB1111.8010		0TB1111.8110		
Number of pins	11	14.	11	"Hij	41,
Type of terminal	Screw clamps		Cage clamps		
Distance between contacts	3.5 mm		3.5 mm		
Contact resistance	≤4.2 mΩ		≤4.2 mΩ		
Rated voltage	300 V		300 V		
Rated current <sup>1)</sup>	10 A / contact		10 A / contact		
Connection cross section					
AWG lines	28 - 14 AWG		26 - 14 AWG		
Solid wire lines	0.20 – 1.50 mm²		0.20 - 1.50 mm <sup>2</sup>		
Fine wire lines without wire tip sleeves	0.20 – 1.50 mm²		0.20 - 1.50 mm <sup>2</sup>		
Fine wire lines with wire tip sleeves	0.20 – 1.50 mm²		0.20 - 1.50 mm <sup>2</sup>		
Wire tip sleeves with plastic covering	0.20 – 1.50 mm <sup>2</sup>		0.20 - 1.00 mm <sup>2</sup>		
Cable type	Copper wires only (no aluminum w	rires!)	Copper wires only	(no aluminum wires!)	
Comment	Protected against vibration by the	screw flange	Protected against v	vibration by the screw fla	inge
	Rated values according to UL		Rated values accor	rding to UL	

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration

The single-row 12-pin terminal block TB712 is used for making connections on various I/O modules. Removal is simplified by two ejection levers on the terminal block.





Brief overview	7TB712.9	7TB712.91	.8"
Number of pins	12	12	27.
Type of terminal	Screw clamps	Cage clamps	
Distance between contacts	3.5 mm	3.5 mm	
Contact resistance	≤4.2 mΩ	≤4.2 mΩ	
Rated voltage	300 V	300 V	
Rated current <sup>1)</sup>	10 A / contact	10 A / contact	
Connection cross section			
AWG lines	28 - 14 AWG	26 - 14 AWG	
Solid wire lines	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm²	
Fine wire lines without wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm²	
Fine wire lines with wire tip sleeves	0.20 - 1.50 mm²	0.20 - 1.50 mm²	
Wire tip sleeves with plastic covering	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.00 mm²	
Cable type	Copper wires only (no aluminum wires!)	Copper wires only (no aluminum wires!	)
Comment	Mechanical removal help	Mechanical removal help	
	Rated values according to UL	Rated values according to UL	

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration

The single-row 18-pin terminal block TB718 is used for making connections on various I/O modules. Removal is simplified by two ejection levers on the terminal block.





Brief overview	7TB718.9	7TB718.91	.80	- 20
Number of pins	18	18	24.	77.
Type of terminal	Screw clamps	Cage clamps		
Distance between contacts	3.5 mm	3.5 mm		
Contact resistance	≤4.2 mΩ	≤4.2 mΩ		
Rated voltage	300 V	300 V		
Rated current <sup>1)</sup>	10 A / contact	10 A / contact		
Connection cross section				
AWG lines	28 - 14 AWG	26 - 14 AWG		
Solid wire lines	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>		
Fine wire lines without wire tip sleev	ves 0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm <sup>2</sup>		
Fine wire lines with wire tip sleeves	0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.50 mm²		
Wire tip sleeves with plastic covering	g 0.20 - 1.50 mm <sup>2</sup>	0.20 - 1.00 mm <sup>2</sup>		
Cable type	Copper wires only (no aluminum wir	res!) Copper wires only	(no aluminum wires!)	
Comment	Mechanical removal help	Mechanical remova	al help	
	Rated values according to UL	Rated values accor	ding to UL	

<sup>1)</sup> The respective limit data for the I/O modules must be taken into consideration.

#### Ethernet hub AC808



The AC808 Ethernet hub is a standalone device that can be used universally as a Level 2 hub in standard Ethernet or ETHERNET Powerlink networks. It is suitable for both 100 MBit/s (Fast Ethernet) and 10 MBit/s networks. The hub recognizes the transfer speed for the channels automatically.<sup>1)</sup>

The Ethernet connections are made using RJ45 connectors. The pin assignments can be crossed for the first channel using switches.

The hub can be installed horizontally or vertically on the mounting rail. It also has fastening possibilities on the sides for direct mounting.

Brief overview	0AC808.9	.20	180	.80
Туре	8x industrial hub (Layer 2)	77.	Th's	7/1
Interface	Ethernet 10/100 Base-T (ANSI/IEEE	802.3)		
Cable length	Max. 100 m between two stations (	segment length)		
Transfer rate	10 or 100 MBit/s; 100 MBit/s used f	or devices with 10/100 MBit/s auto	-negotiation 1)	
Port design	Shielded RJ45 ports			
Power supply	24 VDC, max. 5.2 W, protection aga	inst reverse polarity		
General information	0AC808.9			
Status indicators	Network activity for each channel, I	link/collision for each channel, supp	oly voltage	10,5
Diagnostics				
Bus function	Yes, with status LED			
Hub supply	Yes, with status LED			
Certification	CE, C-UL-US, GOST-R			
Mechanical characteristics	0AC808.9			
Dimensions (W x H x D)	115 x 43 (51 with mounting rail) x 8	86 mm		
Protection type	IP20			
Installation	Mounting rail installation and mour	nting rail adapter included in delive	ry	
Mounting orientation	Vertical or horizontal			
Operating temperature				
Horizontal installation	0°C to +60°C			
Vertical installation	0°C to +50°C			
Storage temperature	-25°C to +70°C			
Relative humidity	5 to 95%, non-condensing			
Comment	Order 1 x TB704 terminal block sep	parately		

<sup>1)</sup> Note: If devices that use 10 MBit/s as well as 100 MBit/s are connected, then there is no communication between these devices. Devices with 10/100 MBit/s auto-negotiation are always operated at 100 MBit/s on the hub.

Required accessories		
0TB704.9	Accessory, terminal block, 4-pin, screw clamps, 1.5 mm <sup>2</sup>	∄ 35
0TB704.91	Accessory, terminal block, 4-pin, cage clamps, 2.5 mm <sup>2</sup>	∄ 35

## Level converter Bus connectors



Brief overview	0AC401.9	8		
Power supply	24 VDC		F	
Overvoltage protection	External fuse specified at 10 AT			
Input frequency	100 kHz			
Power consumption	Typ. 6.0 W @ 24 V, the encoder sup	ply (+5 V) is loaded with 500 mA		
General information	0AC401.9			
Certification	CE, C-UL-US, GOST-R			
Mechanical characteristics	0AC401.9			28
Dimensions (W x H x D)	77 x 112.5 x 58 mm	"The	The	740
Protection type	IP20			
Installation	DIN rail installation			
Mounting orientation	Horizontal or vertical			
Operating temperature	0°C to +55°C			
Storage temperature	-20°C to +70°C			
Relative humidity	0 - 95%, non-condensing			

The RS485 bus connector is used to connect a controller to a Profibus network or an RS485 network. The termination resistor is integrated in the bus connector. The terminating resistor can be turned on or off.





The AC911 bus connector is used to connect a controller to a CAN network. The termination resistor is integrated in the bus connector. The terminating resistor can be turned on or off.

Brief overview	0G1000.00-090	7AC911.9		200
Interface				
Fieldbus	Profibus DP, RS485 network	-		
Type	RS485	CAN		
Design	9-pin DSUB plug	9-pin DSUB socket		
Connection	For two bus lines using screw clamps	For two bus lines using screw clamps		
Terminating resistors	Can be switched on	Can be switched on		
Stress relief	Integrated	Integrated		
Certification	CE, GOST-R	CE, GOST-R		

## Interface converters ECINT1



The INT1 interface converter is used to convert RS232 interface signals to an RS485 signal level. It is used if:

- Data transfer over a long distance is required which cannot be bridged by an RS232 interface. The distance between two stations can be max. 5000 m when using shielded RS485 cables.
- Electrical isolation is required for the interface.
- A PLC is to be connected to a network using an RS232 interface.

The INT1-11 interface converter is equipped with lightning protection.

Brief overview	ECINT1-1	ECINT1-11	.80
Power supply	24 VDC, maximum 4.3 W, protecti	ion against reverse polarity 24 VDC, maximum 4.3 W, pro	tection against reverse polarity
Overvoltage protection	Yes	Yes	
Maximum baud rate	115.2 kBaud	115.2 kBaud	
Cable length RS232 RS485	Max. 10 m Max. 5,000 m	Max. 10 m Max. 5,000 m	
Operating modes	Point-to-point	Point-to-point	
	RS422 network	RS422 network	
	RS485 network	RS485 network	
Terminating resistors	Can be switched on	Can be switched on	
Lightning protection	- My	Yes	
General information	ECINT1-1	ECINT1-11	42
Status indicators	RS232 signal lines, RS485 active,	supply voltage RS232 signal lines, RS485 acti	ive, supply voltage
Diagnostics Interface function Power supply	Yes, with status LED Yes, with status LED	Yes, with status LED Yes, with status LED	
Certification	CE, GOST-R	CE, GOST-R	
Mechanical characteristics	ECINT1-1	ECINT1-11	720
Dimensions (W x H x D)	100 x 73 x 114 mm	100 x 73 x 114 mm	
Protection type	IP20	IP20	
Installation	Mounting rail or back wall installa M5 screws	tion using Mounting rail or back wall inst M5 screws	tallation using
Mounting orientation	Any	Any	
Operating temperature	0°C to +60°C	0°C to +60°C	
Storage temperature	-20°C to +70°C	-20°C to +70°C	
Relative humidity	0 - 95%, non-condensing	0 - 95%, non-condensing	

#### Bus adapters CAN 1x, CAN 2x







Brief overview	0AC912.9	0AC913.92	0AC913.93
Bus adapter	CAN 1x	CAN 2x	CAN 2x
Connection to controller	9-pin DSUB socket,	Using 30 cm cable with	Using 30 cm cable with
	connection made by customer	9-pin DSUB housing	4-pin plug
Networking	Using 9-pin terminal block	Using 9-pin DSUB plug (C1) and	Using 9-pin DSUB plug (C1) and
		9-pin DSUB socket (C2)	9-pin DSUB socket (C2)
Terminating resistors	Can be switched on	Can be switched on	Can be switched on
Installation	DIN rail installation	DIN rail installation	DIN rail installation
Mounting orientation	Horizontal or vertical	Horizontal or vertical	Horizontal or vertical
Certification	CE, GOST-R	CE, GOST-R	CE, GOST-R

#### **USB** drive combination





General information	5MD900.USB2-01	, D	. D	
Transfer rate	Low speed (1.5 MBit/s), full speed (12	MBit/s), to high speed (480 MBit/s	s)	4/2
Maximum cable length	5 m (without hub)			
CD/DVD formats	Read	Write		
	CD-ROM	CD-R/RW		
	CD-RW	DVD-R/RW		
	CD-R	DVD-RAM		
	CD-DA	DVD+R/RW		
	Photo CD (single/multi-session)	DVD+R (double layer)		
	Enhanced CD			
	DVD-ROM			
	DVD-R, +R			
	DVD-RW, +RW			
	DVD video			
	DVD RAM (4.7 GB, 2.6 GB)			
CD/DVD speed	CD: 24 x / DVD: 8 x	CD: 24 x / DVD: 8 x		
Floppy disk drive	1.44 MB			
CompactFlash slot	Type II			
Interfaces	USB 2.0: front (type A), back (type B)			
Power supply	24 VDC ±25%			
Environmental conditions	5MD900.USB2-01	76	770	77,00
Environmental temperature	Ma.	41,	Ma.	do.
Operation	+5°C to +45°C			
Storage	-20°C to +60°C			
Transport	-40°C to +65°C			
Relative humidity				
Operation	8 - 80% (non-condensing)			
Storage	5 - 95% (non-condensing)			
Transport	5 - 95% (non-condensing)		W. Carlotte	all the
Mechanical characteristics	5MD900.USB2-01	.80"	. W.	.80°
Protection type	IP65 front side (only with optional fron	t cover), IP20 back side		
Dimensions (W x H x D)	156 x 52 x 140 mm			

Required accessories		
0TB103.9	Connector, 24 VDC, 3-pin female, screw clamps, 3.31 mm²,	∄ 34
22	protected against vibration by the screw flange	24
0TB103.91	Connector, 24 VDC, 3-pin female, cage clamps, 3.31 mm²,	∄ 34
	protected against vibration by the screw flange	
5A5003.03	Controller R-IDE front cover	2
5CAUSB.0018-00	USB 2.0 cable type A-B; 1.8 m	
5CAUSB.0050-00	USB 2.0 cable type A-B; 5 m	A.
5SWUTI.0000-00	Nero CD-RW OEM software. Only available with a CD-RW drive.	70%

#### **ETHERNET Powerlink cables**

ETHERNET Powerlink cable RJ45 to RJ45



Length	Connection cable	
N	Model number	Short description
0.2 m	X20CA0E61.0002	EPL connection cable RJ45 to RJ45, 0.2 m
1.0 m	X20CA0E61.0010	EPL connection cable RJ45 to RJ45, 1.0 m
2.0 m	X20CA0E61.0020	EPL connection cable RJ45 to RJ45, 2.0 m
5.0 m	X20CA0E61.0050	EPL connection cable RJ45 to RJ45, 5.0 m
10.0 m	X20CA0E61.0100	EPL connection cable RJ45 to RJ45, 10.0 m
15.0 m	X20CA0E61.0150	EPL connection cable RJ45 to RJ45, 15.0 m
50 0 m	X20CA0E61 0500	FPI, connection cable B.I45 to B.I45, 50.0 m

ETHERNET Powerlink cable RJ45 to M12



Length	Connection cable	31° 31°
- L	Model number	Short description
5 m	X67CA0E41.0050	EPL attachment cable RJ45 to M12, 5.0 m
15 m	X67CA0E41.0150	EPL attachment cable RJ45 to M12, 15.0 m
50 m	X67CA0E41.0500	EPL attachment cable RJ45 to M12, 50.0 m

For detailed information and support: www.br-automation.com

# 8 connection shielding clamp AC301



The AC301 8 connection shielding clamp is used for optimal cable shielding for analog signal lines, as well as encoder and counter signals. The cable shields are screwed directly on the shield bracket. The required mounting materials are included in the delivery.

Short description	0AC301.9	- C
Number of cable shield clamps	8	770
Type of terminal	4 x screw clamps (sets of two)	
Dimensions including shield clamps (W x H x D)	76 x 25 x 22 mm	

#### 19" AT keyboard





General information	79b.	5E9600.01-010	.80	5E9600.01-020	78),	.89
Keyboard format	Zy.	German	24,	English	M.	M.
Installation		Front mount installation, 19" format		Front mount installation	ı, 19" format	
Connection		PS/2 plug		PS/2 plug		
Environmental conditions		5E9600.01-010		5E9600.01-020		
Environmental temperature						
Operation		0°C to +55°C		0°C to +55°C		
Storage / Transport		-20°C to +60°C		-20°C to +60°C		
Relative humidity		5 - 95% (non-condensing)		5 - 95% (non-condensir	ng)	
Mechanical characteristics		5E9600.01-010	nd a	5E9600.01-020		
EN 60529 protection	.00	IP65 (front side)	.0	IP65 (front side)	(0)	.07
Dimensions (W x H x D)		482.6 x 177 x 35 mm		482.6 x 177 x 35 mm		

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0		5A5003.03	₿ 31	5E9600.01-020	₿ 50
0AC171.9	₿ 32	5AC900.1100-00	₿ 32	5MD900.USB2-01	<b>47</b>
0AC200.9	₿ 32	5C5000.21	<b>15</b>	5MMUSB.0256-00	∄ 31
0AC201.9	■ 32	5C5000.22	15	5MMUSB.0512-00	∄ 31
0AC301.9	₿ 32	5C5000.31	15	5MMUSB.1024-00	∄ 31
0AC401.9	₿ 44	5C5000.32	<b>1</b> 5	12	20
0AC808.9	₫ 43	5C5001.32	<b>14</b>	<b>7</b>	
0AC912.9	₿ 46	5C5001.42	■ 14	7AC911.9	<b>44</b>
0AC913.92	₿ 46	5C5002.14	12	7TB710.9	₿ 39
0AC913.93	<b>1</b> 46	5C5002.15	12	7TB710.91	₿ 39
0G0001.00-090	₿ 32	5C5002.16	12	7TB712.9	₿ 41
0G0010.00-090	₿ 32	5C5600.03	<u>15</u>	7TB712.91	<b>41</b>
0G0012.00-090	₿ 32	5C5600.04	<b>15</b>	7TB718.9	₿ 42
0G1000.00-090	<b>44</b>	5C5601.32	14	7TB718.91	<b>42</b>
0MC111.9	■ 31	5CAUSB.0018-00	₿ 31	770	
0MC112.9	■ 31	5CAUSB.0050-00	₿ 31	9 "(ק	
0MC211.9	■ 31	5CFCRD.0064-03	₿ 30	9A0004.11	12
0TB103.8	₿ 34	5CFCRD.0128-03	₿ 30	9A0004.12	∄ 12
0TB103.9	<b>1</b> 34	5CFCRD.0256-03	₿ 30	9A0004.14	₫ 12
0TB103.91	₿ 34	5CFCRD.0512-03	₿ 30	9A0013.01	∄ 32
0TB1111.8010	₽ 40	5CFCRD.1024-03	₿ 30	9A0015.99	∄ 31
0TB1111.8110	₽ 40	5CFCRD.2048-03	₿ 30	9A0017.01	∄ 32
0TB2105.9010	₿ 36	5CFCRD.4096-03	₿ 30	9A0017.02	₿ 32
0TB2105.9110	₿ 36	5CFCRD.8192-03	₿ 30	9 9	
0TB704.9	∄ 35	5D5210.01	₫ 16	ECINT	
0TB704.91	₿ 35	5D5211.02	16	ECINT1-1	<b>45</b>
0TB708.91	₫ 37	5D5211.03	19	ECINT1-11	<u>a</u> 45
0TB710.91	₫ 38	5D5212.02	₽ 21	"n'u,	They .
		5D5212.04	₽ 22	X20	
4		5D5510.10	<b>17</b>	X20CA0E61.0002	<b>48</b>
4A0006.00-000	∄ 32	5D5600.01	18	X20CA0E61.0010	<b>48</b>
"Tion"	"Jion"	5D5600.02	₽ 18	X20CA0E61.0020	<b>48</b>
5		5D5600.03	<b>18</b>	X20CA0E61.0050	₫ 48
5A5001.15	■ 12	5D5601.01	₽ 20	X20CA0E61.0100	<b>48</b>
5A5001.16	■ 12	5D5601.02	₿ 20	X20CA0E61.0150	<b>48</b>
5A5002.02	12	5D5601.03	₽ 20	X20CA0E61.0500	₫ 48
5A5002.03	12	5E9600.01-010	₿ 50	Variation -	

#### X67

X67CA0E41.0050	<b>48</b>
X67CA0E41.0150	₫ 48
X67CA0E41.0500	<b>48</b>
X67CA0X99.1000	₿ 32

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