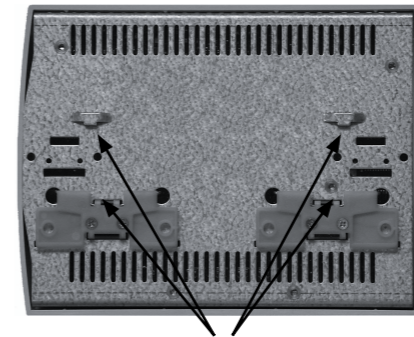
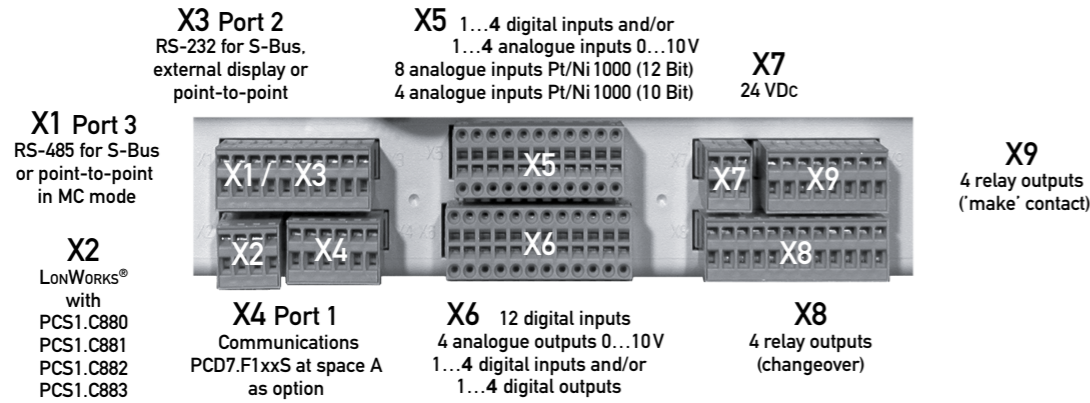


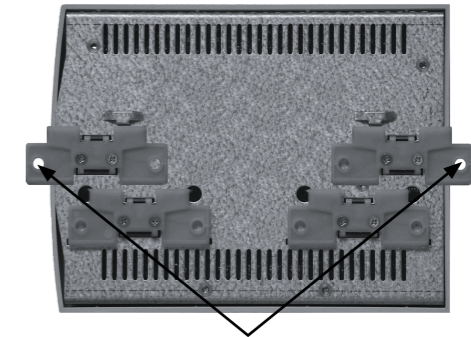
Overview PCS1.C8xx  
Übersicht PCS1.C8xx  
Récapitulatif PCS1.C8xx

PCS1.C8xx

Mounting instruction  
Montageanleitung  
Assemblage



Standard mounting on 35 mm top-hat rail DIN EN 60715  
Standard-Montage auf 35 mm-Hutschiene DIN EN 60715  
Montage classique sur rail 35 mm DIN EN 60715



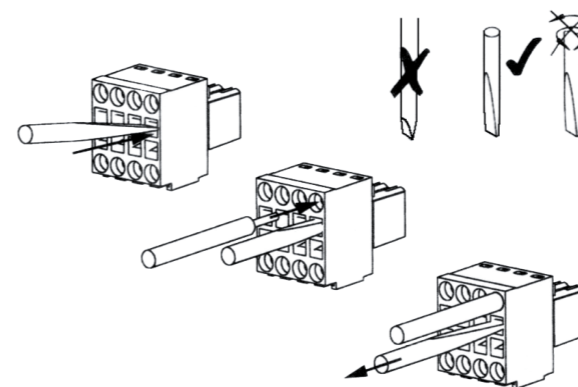
Wall-mounting as option  
Wandmontage als Option  
Montage mural en option (4'109'4849'0)

Block	Pin	Name	I/O address	Notes	
X1	1	Data_Sbus		Port#3, RS-485	
	2	/Data_Sbus		S-Bus	
	3	GND		Standard Port on all PCS1	
X3	4	+5V			
	5	n.c.		Port#2, RS-232	
	6	GND		External display.	
	7	CTS2_ext		Standard port	
	8	RxD2_ext		on all	
	9	RTS2_ext		PCS1.C822 and	
	10	TxD2_ext		PCS1.C823	
	X2	1			
		2	LON A Data		LonWorks®
		3	LON B Data		
4		GND			
X4	1	GND		Port#1 Optional port RS-485/RS-422/ RS-232	
	2	I1A			
	3	I1B			
	4	I1C			
	5	I1D			
	6	I1G			
X5	1	COM		GND for Pt/Ni1000 <sup>1)</sup>	
	3	E48	I 48 ch 0	Inputs 0...10V	
	5	E49	I 48 ch 1	or digital	
	7	E50	I 48 ch 2	Inputs 24 VDC	
	9	E51	I 48 ch 3		
	11	GND		Base address = 48	
	13	GND		see also FBox	
	15	E52	I 48 ch 4	PCS1.W2xx	
	17	E53	I 48 ch 5	Pt/Ni 1000	
	19	E54	I 48 ch 6		
	21	E55	I 48 ch 7		
	X5	2	COM		GND for Pt/Ni1000 <sup>1)</sup>
		4	E64	I 64 ch 0	Pt/Ni 1000
6		E65	I 64 ch 1		
8		E66	I 64 ch 2		
10		E67	I 64 ch 3		
12		GND		Base address = 64	
14		GND		see also FBox	
16		E68	I 64 ch 4	PCS1.W3xx	
18		E69	I 64 ch 5		
20		E70	I 64 ch 6		
22		E71	I 64 ch 7		
X6		1	E0	I 0	
		3	E1	I 1	
	5	E2	I 2		
	7	E3	I 3		
	9	E4	I 4	Digital inputs, 8 ms as PCD2.E110	
	11	E5	I 5		
	13	E6	I 6		
	15	E7	I 7		
	17	E8	I 8		
	19	E9	I 9	Digital inputs, 0.2 ms as PCD2.E111	
	21	E10	I 10		
	23	E11	I 11		
	24	GND			

Block	Pin	Name	I/O address	Notes	
X6	2	GND		Outputs 0...10 V <sup>1)</sup>	
	4	A80	O 80 ch 0		
	6	A81	O 80 ch 1	Base address = 80	
	8	A82	O 80 ch 2	see also FBox	
	10	A83	O 80 ch 3	PCS1.W4xx	
	12	GND		Selectable as digital inputs	
X6	14	+24V_EXT		(as PCD2.B100)	
	16	E/A12	I/O 12	(I 12...I 15) or as digital outputs	
	18	E/A13	I/O 13	(O 12...O 15)	
	20	E/A14	I/O 14		
	22	E/A15	I/O 15		
	(24)	GND			
	X7	1	Uin +24 VDC		Power supply (inc. 24 VDC) for relays
		2	GND		
		3	GND		
		X8	1	NO20	O 20
2	COM20			common	
3	NC20		O 20	closed	
4	NO21		O 21	2. Relay <sup>2)</sup> /open	
5	COM21			common	
6	NC21		O 21	closed	
7	NO22		O 22	3. Relay <sup>2)</sup> /open	
8	COM22			common	
X8	9	NC22	O 22	closed	
	10	NO23	O 23	4. Relay <sup>2)</sup> /open	
	11	COM23		common	
	12	NC23	O 23	closed	
	X9	1	COM16		5. Relay <sup>2)</sup> /common
		2	NO16	O 16	open
		3	COM17		6. Relay <sup>2)</sup> /common
		4	NO17	O 17	open
X9	5	COM18		7. Relay <sup>2)</sup> /common	
	6	NO18	O 18	open	
	7	COM19		8. Relay <sup>2)</sup> /common	
	8	NO19	O 19	open	
Intern	A_M16	I 24		Switch pos.1	
Intern	A_M17	I 25			
Intern	A_M18	I 26			
Intern	A_M19	I 27			
Intern	A_M20	I 28		Acknowledgement of manual/ emergency control level	
Intern	A_M21	I 29			
Intern	A_M22	I 30			
Intern	A_M23	I 31		(Auto/Man = 1/0) <sup>3)</sup>	
Intern	A_M80_0	I 32		Switch pos.1	
Intern	A_M80_1	I 33			
Intern	A_M80_2	I 34			
Intern	A_M80_3	I 35			

<sup>1)</sup> extra filtered  
<sup>2)</sup> With manual/emergency control level as option  
<sup>3)</sup> Caution: If the manual/emergency control level is not equipped, the status of inputs I24 to I35 is always logical "1".

Plug-in spring terminals  
Steckbare Federkraftklemmen  
Bornier à ressort embrochable



The process input terminals are up to 1.0 mm<sup>2</sup> and the process output terminals are up to 1.5 mm<sup>2</sup>. Process cable must be bared along 7...8 mm (1.0 mm<sup>2</sup>) or 10 mm (1.5 mm<sup>2</sup>) and inserted in the terminals.

UL Compliance:

For use of 60/75 °C copper (Cu) wire only.  
**IMPORTANT:** Screwdrivers used should be type SDI 0.4 × 2.5 × 80 (max. width 2.5 mm).

Die Prozess-Eingangsklemmen sind bis 1.0 mm<sup>2</sup> und die Prozess-Ausgangsklemmen bis 1.5 mm<sup>2</sup> ausgelegt. Die Prozesskabel müssen 7...8 mm (1.0 mm<sup>2</sup>) bzw. 10 mm (1.5 mm<sup>2</sup>) abisoliert und in die Klemmen gesteckt werden.

UL-konformer Einsatz:

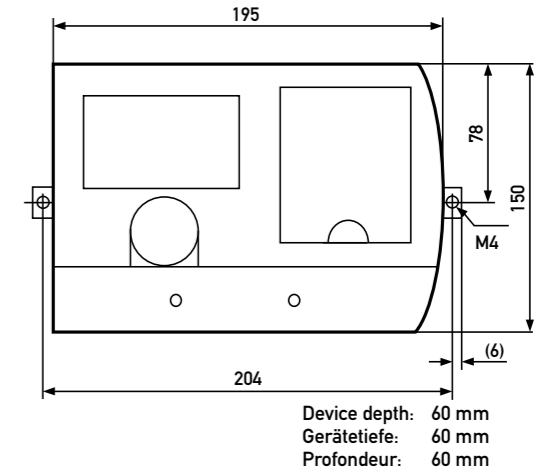
Nur 60/75 °C Kupferleiter (Cu) verwenden.  
**WICHTIG:** Schraubendreher des Typs SDI 0.4 × 2.5 × 80 verwenden (max. Breite von 2.5 mm).

Leur section maximale est de 1 mm<sup>2</sup> pour les entrées et de 1.5 mm<sup>2</sup> pour les sorties. Le câble de raccordement côté PCS doit être dénudé sur 7 à 8 mm (1 mm<sup>2</sup>) ou 10 mm (1.5 mm<sup>2</sup>), puis être inséré dans les bornes.

Conformité UL :

N'utiliser que des fils de cuivre (Cu) 60/75 °C.  
**IMPORTANT:** utiliser un tournevis du type SDI 0.4 × 2.5 × 80 (largeur max. 2.5 mm) pour ouvrir les ressorts.

Dimension drawing  
Massbild  
Schémas cotés



Terminal cover  
Klemmenabdeckung  
Capot cache-bornes

4'111'4927'0



Mounting with the enclosed screws.  
Befestigung mit den beiliegenden Schrauben.  
Montage avec les visses fournies.

UL Compliance:

Ambient temperature operation max. 55 °C  
UL-konformer Einsatz:  
Umgebungstemperatur Betrieb max. 55 °C

Conformité UL :

Température ambiante de service 55 °C maxi

For more details, see Technical Information P+P26/345.  
Weitere Informationen, siehe TI P+P26/345.  
Pour tous détails, consulter l'information technique P+P26/345.

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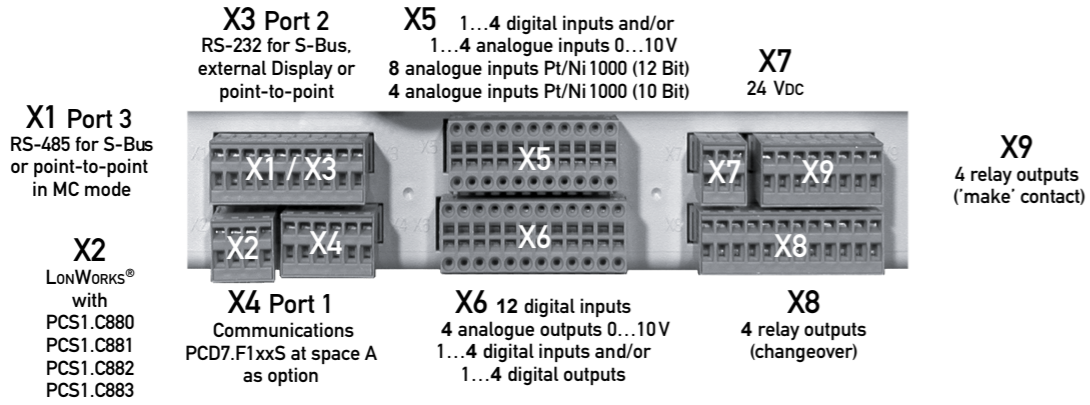
Support www.sbc-support.com | support@saia-pcd.com

PCS1.C8xx

4'319'5025'0 g 04.2015  
Subject to change without notice

www.saia-pcd.com

Communication Interfaces PCS1.C8xx  
 Kommunikations-Schnittstellen PCS1.C8xx  
 Interfaces de communication PCS1.C8xx

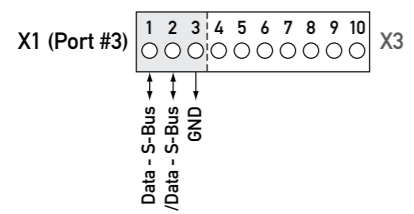


Pins on terminal block X4 for PCD7.F1x0 communications modules at space A

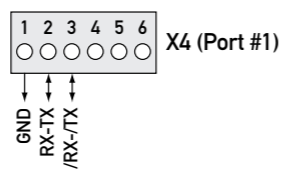
Pin	PCD7.F110S RS-485	PCD7.F110S RS-422	PCD7.F121S RS-232	PCD7.F150S RS-485 *g.i.	PCD7.F180S MP-Bus	
1 (gnd)	GND	GND	GND	—	GND	MP-Bus GND
2 (I1A)	RX - TX	TX	TX	RX - TX	A-COM	MP-Bus signal line
3 (I1B)	/RX - /TX	/TX	RX	/RX - /TX	MST	BELIMO® programming unit
4 (I1C)	—	RX	RTS	—	IN	BELIMO® programming unit detection
5 (I1D)	—	/RX	CTS	—	GND	BELIMO® programming unit GND
6 (I1G)	—	—	—	SGND	—	

\*g.i. = galvanically isolated

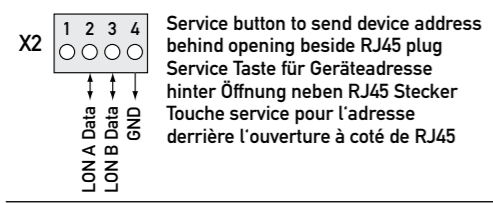
S-Bus/RS-485



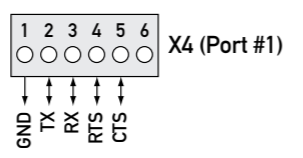
PCD7.F110S – S-Bus/RS-485



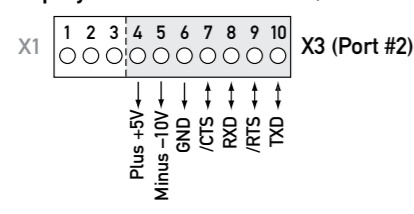
LonWorks® – PCS1.C880...C883



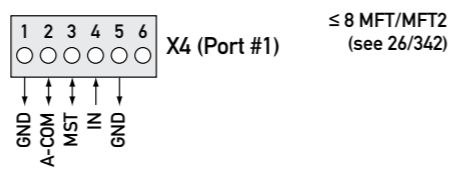
PCD7.F121S – RS-232



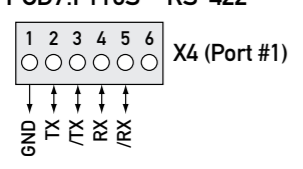
Display PCD7.D230/RS-232 (C822 & C823)



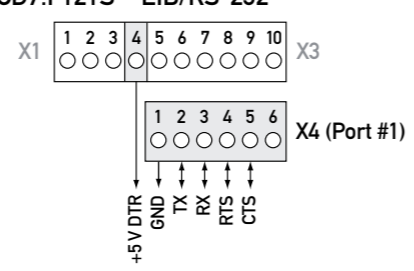
PCD7.F180S – BELIMO® MP-Bus



PCD7.F110S – RS-422

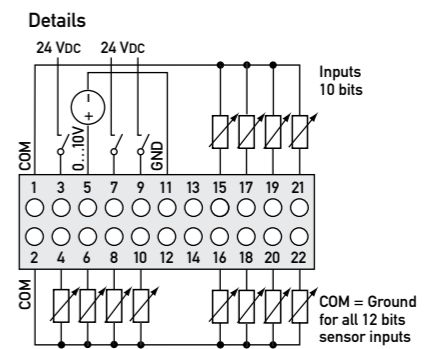
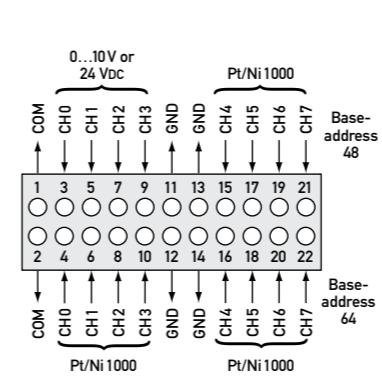


PCD7.F121S – EIB/RS-232

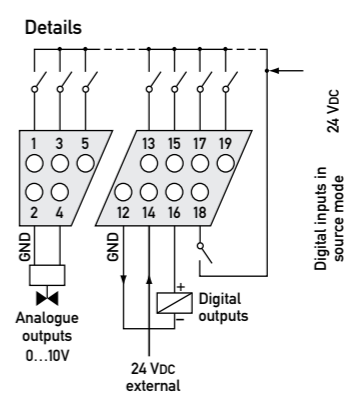
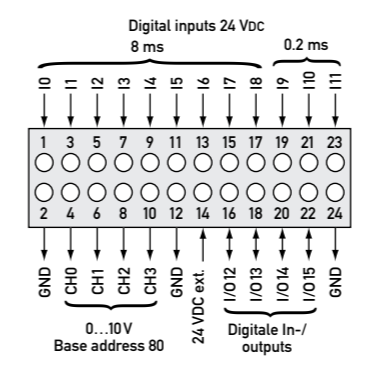


I/O Interfaces PCS1.C8xx  
 E/A-Schnittstellen PCS1.C8xx  
 Interfaces d'E/S PCS1.C8xx

X5

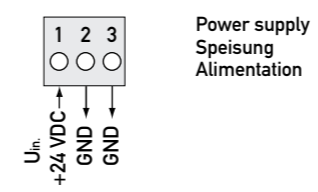


X6

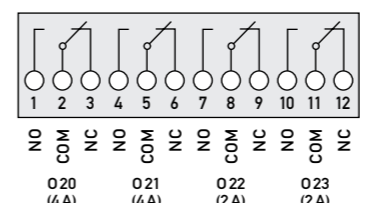


**IMPORTANT** If combined I/Os 12...15 are used as outputs, an external supply is required (24 VDC external). In such cases only source operation will be possible at the inputs.  
**WICHTIG** Werden kombinierte E/A 12...15 als Ausgänge verwendet, ist eine externe Speisung erforderlich (24 VDC extm). In diesem Fall ist bei den Eingängen nur Quellbetrieb möglich.  
**IMPORTANT** Des qu'une des 4 I/O mixt 12...15 est utilisée comme sortie, une alimentation externe de 24 VCC est nécessaire à la borne 14. Dans ce cas, seul le fonctionnement en logique positive est possible pour les autres entrées.

X7



X8



**Details**  
 2-stage fan controller with mutual latching  
 2-stufige Ventilatorsteuerung mit gegenseitiger Verriegelung  
 Commande de ventilateur à vitesse avec verrouillage des sorties entre elles.

X9

