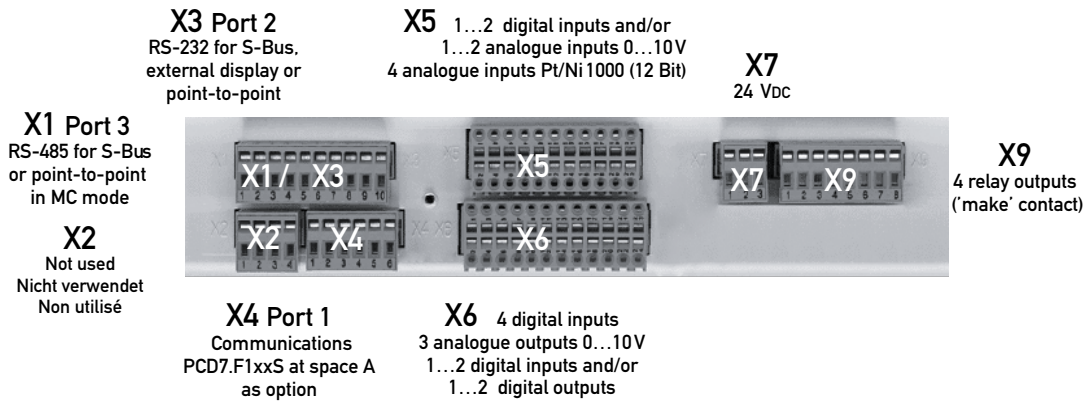


Overview PCS1.C42x

Übersicht PCS1.C42x

Récapitulatif PCS1.C42x



| Block | Pin | Name | I/O address | Notes | Block | Pin | Name | I/O address | Notes | | | |
|-------|-----|------------|-------------|---|-------|--|--|--|--|---|-------|--|
| X1 | 1 | Data_Sbus | | Port#3, RS-485 S-Bus Standard Port on all PCS1 | X6 | 1 | E0 | I 0 | Digital inputs, 8 ms as PCD2.E110 | | | |
| | 2 | /Data_Sbus | | | | 3 | E1 | I 1 | | | | |
| | 3 | GND | | | | 5 | E2 | I 2 | | | | |
| X3 | 4 | +5V | | Port#2, RS-232 External display, Standard port on all PCS1.Cx22 and PCS1.Cx23 | 7 | E3 | I 3 | | | | | |
| | 5 | n.c. | | | 9 | GND | | | | | | |
| | 6 | GND | | | 11 | GND | | | | | | |
| | 7 | CTS2_ext | | | 13 | GND | | | | | | |
| | 8 | RxD2_ext | | | 15 | GND | | | | | | |
| | 9 | RTS2_ext | | | 17 | GND | | | | | | |
| | 10 | TxD2_ext | | | 19 | GND | | | | | | |
| X2 | 1 | | | Not used Nicht verwendet Non utilisé | 21 | GND | | | | | | |
| | 2 | | | | 23 | GND | | | | | | |
| | 3 | | | | (24) | (GND) | | | | | | |
| | 4 | | | | | | | | | | | |
| X4 | 1 | GND | | Port#1 Optional port RS-485/RS-422/ RS-232 | X6 | 2 | GND | | Outputs 0...10V ¹⁾ Base address = 80 see also FBox PCS1.W4xx | | | |
| | 2 | I1A | | | | 4 | A80 | O 80 ch 0 | | | | |
| | 3 | I1B | | | | 6 | A81 | O 80 ch 1 | | | | |
| | 4 | I1C | | | | 8 | A82 | O 80 ch 2 | | | | |
| | 5 | I1D | | | | 10 | GND | | | | | |
| | 6 | I1G | | | | 12 | GND | | | | | |
| X5 | 1 | COM | | Inputs 0...10V or digital Inputs 24VDC Base address = 48 see also FBox PCS1.W2xx | 14 | +24V_EXT | | Selectable as digital inputs (as PCD2.B100) (I 12 & I 13) or as digital outputs (O 12 & O 13) | | | | |
| | 3 | E48 | I 48 ch 0 | | 16 | E/A12 | I/O 12 | | | | | |
| | 5 | E49 | I 48 ch 1 | | 18 | E/A13 | I/O 13 | | | | | |
| | 7 | GND | | | 20 | GND | | | | | | |
| | 9 | GND | | | 22 | GND | | | | | | |
| | 11 | GND | | | (24) | GND | | | | | | |
| | 13 | GND | | | X7 | 1 | Uin +24VDC | | | Power supply (inc. 24 VDC) for relays | | |
| | 15 | COM | | | | 2 | GND | | | | | |
| | 17 | COM | | | | 3 | GND | | | | | |
| | 19 | COM | | | | X9 | 1 | | COM16 | | | 1. Relay ²⁾ /common open |
| | 21 | COM | | | | | 2 | | NO16 | | O 16 | |
| | X5 | 2 | COM | | | | | | 3 | | COM17 | |
| 4 | | E64 | I 64 ch 0 | 4 | NO17 | | O 17 | | | | | |
| 6 | | E65 | I 64 ch 1 | 5 | COM18 | | 3. Relay ²⁾ /common open | | | | | |
| 8 | | E66 | I 64 ch 2 | 6 | NO18 | O 18 | | | | | | |
| 10 | | E67 | I 64 ch 3 | 7 | COM19 | | 4. Relay ²⁾ /common open | | | | | |
| 12 | | GND | | 8 | NO19 | O 19 | | | | | | |
| 14 | GND | | Intern | A_M16 | I 24 | Auto/Manual switch read back from manual override module («emergen- cy control») | | | | | | |
| 16 | GND | | Intern | A_M17 | I 25 | | | | | | | |
| 18 | GND | | Intern | A_M18 | I 26 | | | | | | | |
| 20 | GND | | Intern | A_M19 | I 27 | | | | | | | |
| 22 | GND | | Intern | A_M80_0 | I 32 | Auto/Manual switch read back from manual override module («emergen- cy control») | | | | | | |
| | | | Intern | A_M80_1 | I 33 | | | | | | | |
| | | | Intern | A_M80_2 | I 34 | | | | | | | |

¹⁾ extra filtered

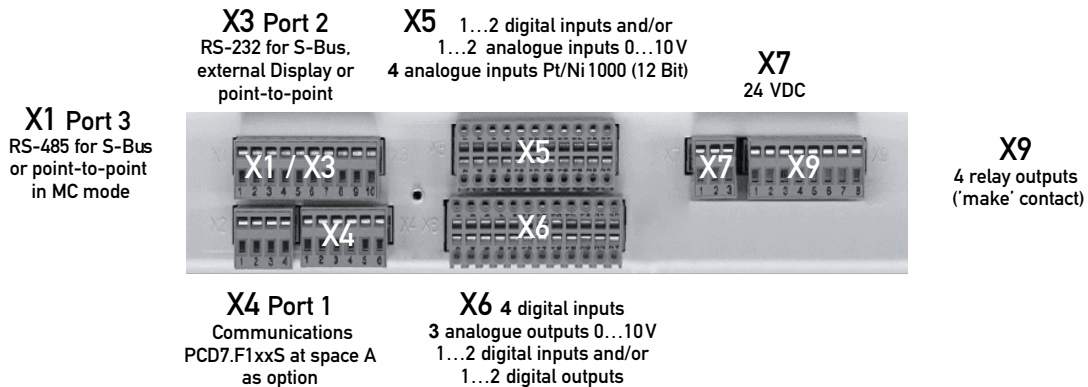
²⁾ With manual/emergency control level as option

³⁾ Caution: If the manual/emergency control level is not equipped, the status of inputs I24 to I34 is always logical "1".

Communication Interfaces PCS1.C42x

Kommunikations-Schnittstellen PCS1.C42x

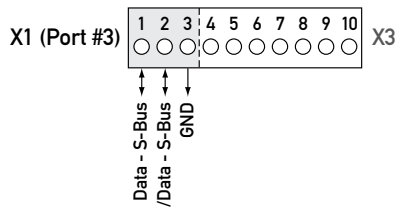
Interfaces de communication PCS1.C42x



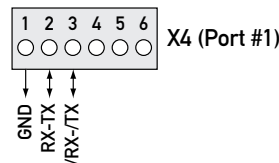
Pins on terminal block X4 for PCD7.F1x0 communications modules at space A

| Pin | PCD7.F110S RS-485 | PCD7.F110S RS-422 | PCD7.F121S RS-232 | PCD7.F150S RS-485 *g.i. | PCD7.F180S MP-Bus | *g.i. = galvanically isolated |
|---------|----------------------|----------------------|----------------------|----------------------------|----------------------|------------------------------------|
| 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 | — | — |

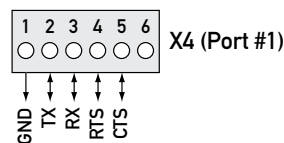
S-Bus/RS-485



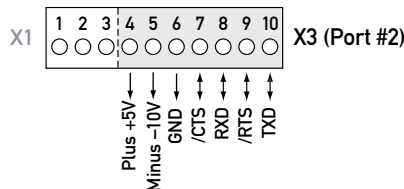
PCD7.F110S – S-Bus/RS-485



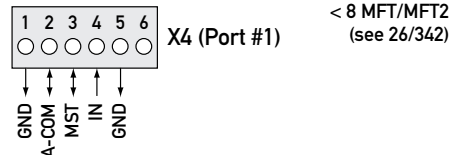
PCD7.F121S – RS-232



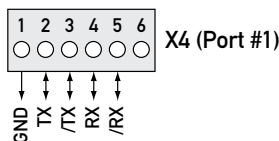
Display PCD7.D230/RS-232 (C422 & C423)



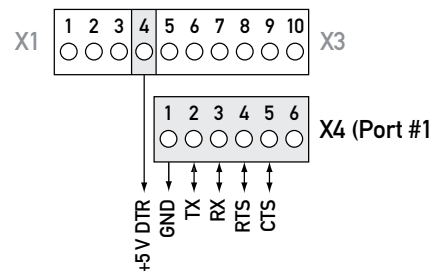
PCD7.F180S – BELIMO® MP-Bus



PCD7.F110S – RS-422



PCD7.F121S – EIB/RS-232

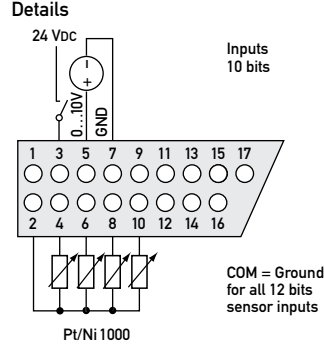
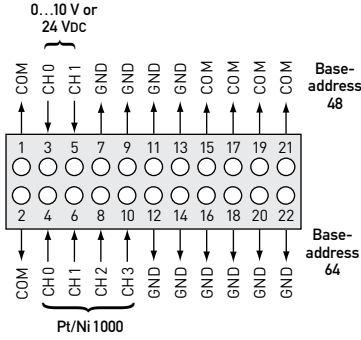


I/O Interfaces PCS1.C42x

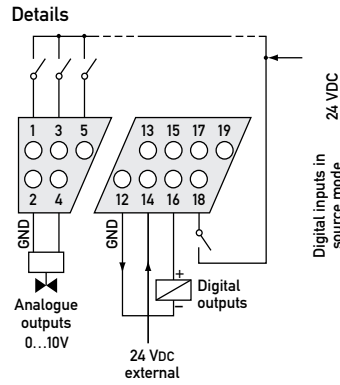
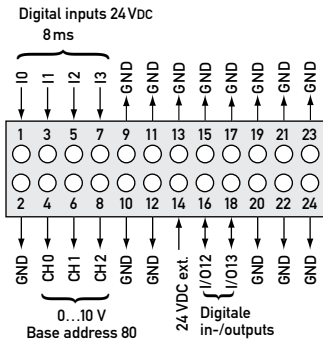
E/A-Schnittstellen PCS1.C42x

Interfaces d'E/S PCS1.C42x

X5

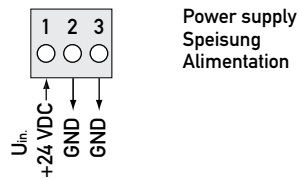


X6

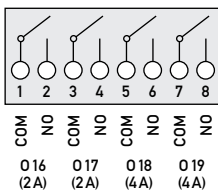


IMPORTANT If combined I/Os 12...15 are used as outputs, an external supply is required (24 VDC external). In such cases only source operation will be possible at the inputs.
WICHTIG Werden kombinierte E/A 12...15 als Ausgänge verwendet, ist eine externe Speisung erforderlich (24 VDC extern). In diesem 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

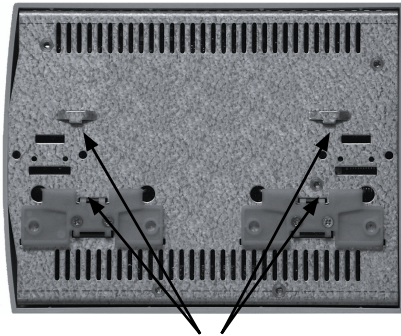


X9

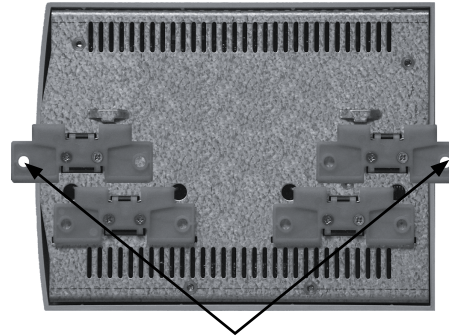


PCS1.C42x

Mounting instruction Montageanleitung Assemblage

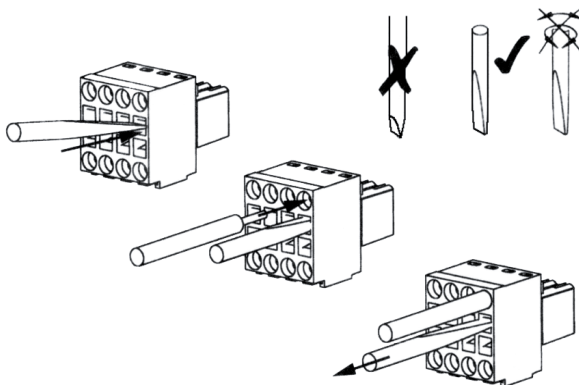


Standard mounting on 35 mm top-hat rail DIN EN 60715
Standard-Montage auf 35 mm-Hutschiene DIN EN 60715
Montage classique sur rail 35 mm DIN EN 60715



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

Plug-in spring terminals Steckbare Federkraftklemmen Bornier à ressort embrochable



The process input terminals are up to 1.0 mm² and the process output terminals are up to 1.5 mm². Process cable must be bared along 7...8 mm (1.0 mm²) or 10 mm (1.5 mm²) 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 mm² und die Prozess-Ausgangsklemmen bis 1.5 mm² ausgelegt. Die Prozesskabel müssen 7...8 mm (1.0 mm²) bzw. 10 mm (1.5 mm²) 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).

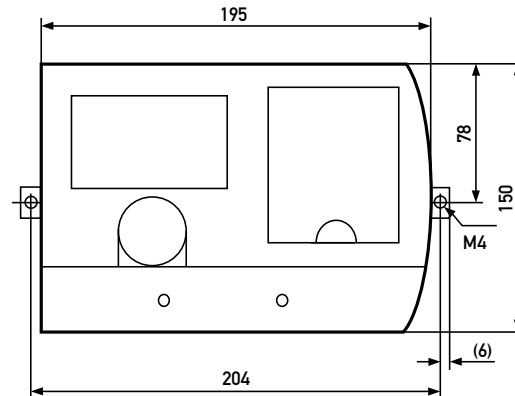
Leur section maximale est de 1 mm² pour les entrées et de 1.5 mm² pour les sorties. Le câble de raccordement côté PCS doit être dénudé sur 7 à 8 mm (1 mm²) ou 10 mm (1.5 mm²), puis être inséré dans les bornes.

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



Device depth: 60 mm
Gerätetiefe: 60 mm
Profondeur: 60 mm

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.

Saia-Burgess Controls AG

Bahnhofstrasse 18 | CH-3280 Murten | Switzerland

T +41 26 580 30 00 | F +41 26 580 34 99

www.saia-pcd.com | info@saia-pcd.com

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