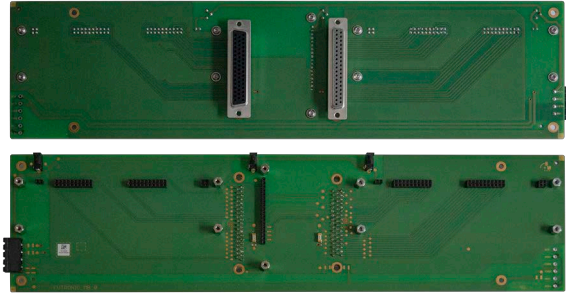


Connection board for reception of up to
2 x BWR4263 and 1 x BWR4787



(Figure similar)

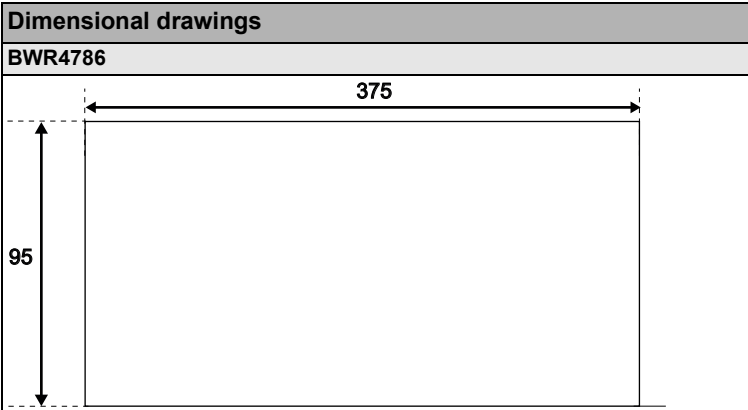


| | |
|------------------------------------|---|
| Article no. | BWR4786 |
| General data | |
| Device type | connection board |
| Connection | |
| ASi / AUX connection | COMBICON sockets, angled (pitch 5.08 mm) (see table "Wiring rules") |
| Peripheral connection | D-Sub socket, straight, 50 poles in 3 rows + D-Sub socket, straight, 37 poles in 2 rows |
| PCB connection | socket board |
| Input voltage (sensor supply) | out of AUX internal protection separately for each D-Sub socket via 1.0 A slow-blow fuse |
| Output voltage (actuator supply) | out of AUX |
| Addressing connection | 3 x addressing sockets |
| Length of connector cable | I/O: max. 1,5 m ⁽¹⁾ |
| Environment | |
| Applied standards | EN 61000-6-2 EN 61000-6-3 EN 60529 |
| Operating altitude | max. 2000 m |
| Ambient temperature | -25 °C ... +75 °C |
| Storage temperature | -25 °C ... +85 °C |
| Protection class | IP00 |
| Coating | no |
| Allowed shock and vibration stress | ≤15g, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude |
| Weight | 30 g |
| Dimensions (W / H / D in mm) | 375 / 95 / 25 |

(1) loop resistance: ≤150 Ω

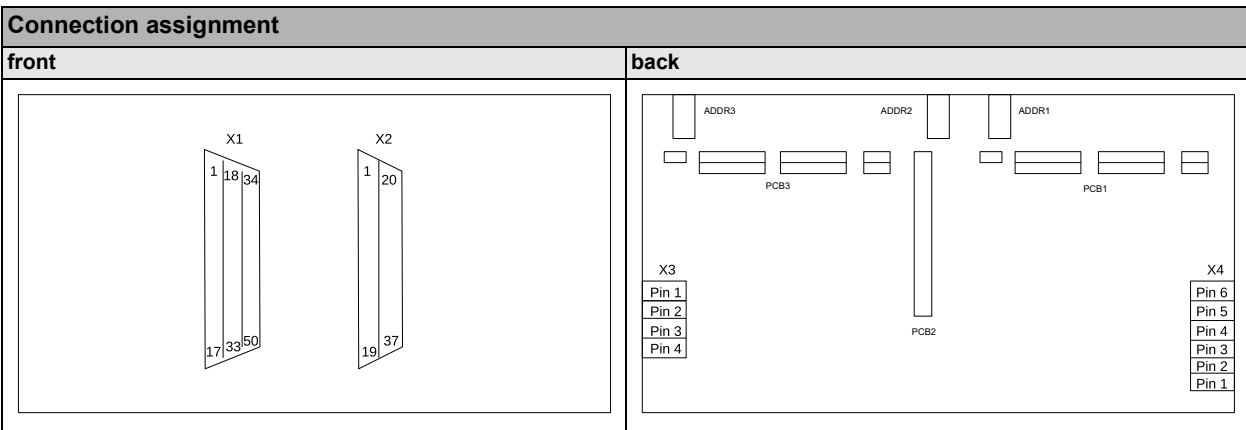
Wiring rules

| Push-in terminals, 2 / 3 / 4 poles (pitch 5 mm) | |
|--|---|
| General | |
| Nominal cross section | 2.5 mm ² |
| Conductor cross section | |
| Conductor cross section solid | 0.2 ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 ... 2.5 mm ² |
| Conductor cross section flexible, with ferrule | without plastic sleeve: 0.25 ... 2.5 mm ² with plastic sleeve: 0.25 ... 2.5 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules | without plastic sleeve: 0.5 ... 1.5 mm ² |
| AWG | 24 ... 14 |
| Stripped insulation length | 10 mm |



Connections:

| | |
|---|--|
| ASi +, ASi - | connection to the ASi bus |
| +24V _{ext.in.} , 0V _{ext.in.} | connection to 24 V auxiliary power supply (AUX) |
| I/Ox | either digital input x or digital output x |
| 0 V | reference potential for outputs |
| +24V | output for 24 V power supply for the inputs |
| Sx+, Sx- | safety input x |
| Ox | digital output x |
| ADDRx | addressing socket for corresponding PCB module x |
| PCB1, 3 | connection sockets for PCB module 1, 3 (BWR4263) |
| PCB2 | connection sockets for PCB module 2 (BWR4787) |
| GND | connection for ground |
| n.c. | not connected |



Pin Assignment X1 (D-Sub, 50 poles)

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 |
|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------|
| I/O1 (I/O1.1) | I/O2 (I/O2.1) | I/O3 (I/O3.1) | I/O4 (I/O4.1) | I/O5 (I/O5.1) | I/O6 (I/O6.1) | I/O7 (I/O7.1) | 0V _{ext.out} | 0V _{ext.out} | 0V _{ext.out} |
| Pin 11 | Pin 12 | Pin 13 | Pin 14 | Pin 15 | Pin 16 | Pin 17 | Pin 18 | Pin 19 | Pin 20 |
| I/O14 (I/O14.1) | I/O17 (I/O17.1) | I/O20 (I/O20.1) | I/O23 (I/O23.1) | I/O26 (I/O26.1) | I/O29 (I/O29.1) | I/O32 (I/O32.1) | n.c. | n.c. | n.c. |
| Pin 21 | Pin 22 | Pin 23 | Pin 24 | Pin 25 | Pin 26 | Pin 27 | Pin 28 | Pin 29 | Pin 30 |
| n.c. | n.c. | I/O8 (I/O8.1) | I/O11 (I/O11.1) | I/O10 (I/O10.1) | I/O9 (I/O9.1) | I/O12 (I/O12.1) | I/O15 (I/O15.1) | I/O18 (I/O18.1) | I/O21 (I/O21.1) |

| Pin Assignment X1 (D-Sub, 50 poles) | | | | | | | | | |
|-------------------------------------|-------------------------|-------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Pin 31 | Pin 32 | Pin 33 | Pin 34 | Pin 35 | Pin 36 | Pin 37 | Pin 38 | Pin 39 | Pin 40 |
| I/O24 (I/O24.1) | I/O27 (I/O27.1) | I/O30 (I/O30.1) | S2- (S2-.2) | S2+ (S2+.2) | n.c. | S1- (S1-.2) | S1+ (S1+.2) | n.c. | n.c. |
| Pin 41 | Pin 42 | Pin 43 | Pin 44 | Pin 45 | Pin 46 | Pin 47 | Pin 48 | Pin 49 | Pin 50 |
| O1 (O1.2) | +24V _{ext.out} | +24V _{ext.out} | I/O13 (I/O13.1) | I/O16 (I/O16.1) | I/O19 (I/O19.1) | I/O22 (I/O22.1) | I/O25 (I/O25.1) | I/O28 (I/O28.1) | I/O31 (I/O31.1) |

| Pin Assignment X2 (D-Sub, 37 poles) | | | | | | | | | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------|-------------------------|
| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 |
| I/O57 (I/O25.3) | I/O61 (I/O29.3) | I/O64 (I/O32.3) | I/O60 (I/O28.3) | I/O56 (I/O24.3) | I/O52 (I/O20.3) | I/O53 (I/O21.3) | I/O49 (I/O17.3) | I/O41 (I/O9.3) | +24V _{ext.out} |
| Pin 11 | Pin 12 | Pin 13 | Pin 14 | Pin 15 | Pin 16 | Pin 17 | Pin 18 | Pin 19 | Pin 20 |
| +24V _{ext.out} | I/O43 (I/O11.3) | I/O47 (I/O15.3) | I/O46 (I/O14.3) | I/O42 (I/O10.3) | I/O38 (I/O6.3) | I/O34 (I/O2.3) | I/O35 (I/O3.3) | I/O39 (I/O7.3) | I/O59 (I/O27.3) |
| Pin 21 | Pin 22 | Pin 23 | Pin 24 | Pin 25 | Pin 26 | Pin 27 | Pin 28 | Pin 29 | Pin 30 |
| I/O63 (I/O31.3) | I/O62 (I/O30.3) | I/O58 (I/O26.3) | I/O54 (I/O22.3) | I/O50 (I/O18.3) | I/O55 (I/O23.3) | I/O51 (I/O19.3) | 0V _{ext.out} | 0V _{ext.out} | 0V _{ext.out} |
| Pin 31 | Pin 32 | Pin 33 | Pin 34 | Pin 35 | Pin 36 | Pin 37 | Pin 38 | Pin 39 | Pin 40 |
| I/O45 (I/O13.3) | I/O48 (I/O16.3) | I/O44 (I/O12.3) | I/O40 (I/O8.3) | I/O36 (I/O4.3) | I/O33 (I/O1.3) | I/O37 (I/O5.3) | - | - | - |

| Pin Assignment X3 (COMBICON, 4 poles) | | | | | | | | | |
|---------------------------------------|-------|------------------------|----------------------|-------|-------|-------|-------|-------|--------|
| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 |
| ASi+ | ASi- | +24V _{ext.in} | 0V _{ext.in} | - | - | - | - | - | - |

| Pin Assignment X4 (COMBICON, 6 poles) (optional) | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | Pin 10 |
| ASi+ | ASi- | GND | GND | ASi+ | ASi- | - | - | - | - |

Accessories:

- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)
- Bihl+Wiedemann Safety Suite License - Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)