

ASi I/O Modules

ASi Specification 3.0

Single address (up to 31 addresses) or
AB address (up to 62 addresses)

Housing with external fastening tabs



(Figure similar)



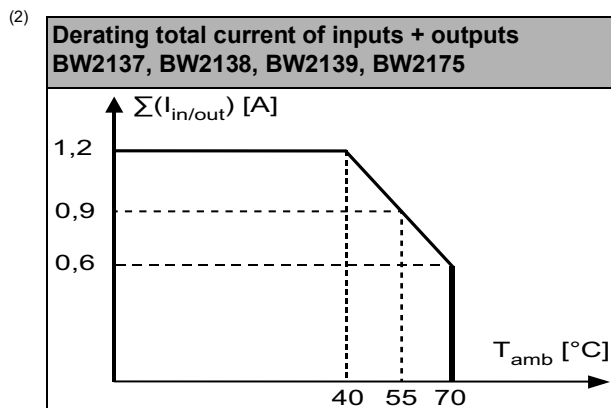
| Figure | Type | Housing | Inputs digital | Outputs digital | Input voltage (sensor supply) ⁽¹⁾ | Output voltage (actuator supply) ⁽²⁾ | ASi connection ⁽³⁾ | ASi address ⁽⁴⁾ | Article No. |
|--------|-----------------------------------|---------------------|----------------|-----------------|--|---|-------------------------------|----------------------------|---------------|
| | I/O modules | surface-mounted box | 4 | 3 x electronic | out of AUX | out of AUX | cage clamp terminals | 1 AB address | BW2139 |
| | I/O modules | surface-mounted box | 4 | 4 x electronic | out of AUX | out of AUX | cage clamp terminals | 1 AB address | BW2137 |
| | I/O modules | surface-mounted box | 4 | 4 x electronic | out of AUX | out of AUX | cage clamp terminals | 1 single address | BW2175 |
| | heating/air conditioning (valves) | surface-mounted box | – | 4 x electronic | – | out of AUX | cage clamp terminals | 1 single address | BW2138 |

- (1) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential
- (3) **ASi connection:** the connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).
- (4) **ASi address:** 1 AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), mixed use allowed. For modules with two ASi nodes the 2nd ASi node is turned off as long as the 1st ASi node is addressed to address "0". Upon request, ASi nodes are available with specific ASi node profiles.

| Article no. | BW2139 | BW2137 | BW2175 | BW2138 |
|--|-------------------------------|--------------------------|----------------------------|----------------------------|
| General data | | | | |
| Device type | input / output | | | output |
| Connection | | | | |
| ASi / AUX connection | cage clamp terminals | | | |
| Periphery connection | cage clamp terminals | | | |
| Length of connector cable | I/O: max. 15 m ⁽¹⁾ | | | |
| ASi | | | | |
| Profile | S-7.A.E ID1=7 (default) | S-7.A.7 ID1=7 (fixed) | S-7.F.E ID1=F (default) | S-8.F.E ID1=F (default) |
| Address | 1 AB address | | 1 Single address | |
| Required Master profile | ≥M3 | ≥M4 | ≥M0 | |
| Since ASi specification | 2.1 | 3.0 | 2.0 | |
| Operating voltage | 30 V (18 ... 31.6 V) | | | |
| Max. current consumption | 70 mA | | | |
| Max. current consumption without sensor/ actuator supply | ≤ 20 mA | | | |
| AUX | | | | |
| Voltage | 24 V (20 ... 30 V) | | | |
| Max. current consumption | 1,2 A | | | |

| Article no. | BW2139 | BW2137 | BW2175 | BW2138 |
|--------------------------------------|--|---|--------|--------|
| Input | | | | |
| Number | 4 | | | – |
| Power supply | out of AUX | | | |
| power supply of attached sensors | up to +40 °C | Σ (inputs+outputs) 1,2 A ⁽²⁾ | | – |
| | at +55 °C | Σ (inputs+outputs) 0,9 A ⁽²⁾ | | – |
| | at +70 °C | Σ (inputs+outputs) 0,6 A ⁽²⁾ | | – |
| Switching threshold | U<5 V (low) U>15 V (high) | | | – |
| Output | | | | |
| Number | 3 x electronic | 4 x electronic | | |
| Power supply | out of AUX | | | |
| Max. output current | up to +40 °C | 0,5 A per output Σ (inputs+outputs) 1,2 A ⁽²⁾ | | |
| | at +55 °C | 0,5 A per output Σ (inputs+outputs) 0,9 A ⁽²⁾ | | |
| | at +70 °C | 0,5 A per outputs Σ (inputs+outputs) 0,6 A ⁽²⁾ | | |
| Display | | | | |
| LED ASI (green) | an: ASi voltage on, flashing: ASi voltage on, but peripheral fault ⁽³⁾ or address 0 off: no ASi Voltage | | | |
| LED FLT/FAULT (red) | an: ASi address 0 or ASi participant offline flashing: peripheral fault ⁽³⁾ off: ASi participant online | | | |
| LED AUX (green) | an: 24 V _{DC} AUX off: no 24 V _{DC} AUX | | | |
| Environment | | | | |
| Applied standards | EN 61000-6-2 EN 61000-6-4 EN 60529 | | | |
| Operating altitude | 2000 m | | | |
| Ambient temperature | -25 °C ... +70 °C ⁽²⁾ | | | |
| Storage temperature | -25 °C ... +85 °C | | | |
| Housing | plastic, for screw mounting | | | |
| Protection category | IP54 | | | |
| Voltage of insulation | ≤ 15 g, T ≤ 11 ms 10 ... 55 Hz, 0,5 mm amplitude | | | |
| Allowable shock and vibration stress | ≥ 500 V | | | |
| Weight | 155 g | | | |
| Dimensions (W / H / D in mm) | 93 / 93 / 55 | | | |

(1) Loop resistance $\leq 150 \Omega$



(3) see table „peripheral fault indication“

| Article no. | Peripheral fault indication | |
|-------------|-----------------------------|---------------------|
| | output short circuited | AUX voltage missing |
| BW2137 | • | • |
| BW2138 | • | • |
| BW2139 | • | • |
| BW2175 | • | • |

| Programming | Bit setting | | | |
|--|---------------|--|--|--------------------------------|
| | D3 | D2 | D1 | D0 |
| | input | | | |
| BW2137 / BW2175 | I4 | I3 | I2 | I1 |
| BW2139 | – | I3 | I2 | I1 |
| | output | | | |
| BW2137 / BW2138 / BW2139 / BW2175 | O4 | O3 | O2 | O1 |
| | parameter bit | | | |
| | P3 | P2 | P1 | P0 |
| BW2137 / BW2138 / BW2139 / BW2175 | not used | 0 = on / 1 = off (synchronous I/O mode) | 0 = on / 1 = off (data input filter 128 µs) | 0 = off / 1 = on (watchdog) |
| Programming instruction | | | | |
| address preset 0, changeable via bus master or programming devices | | | | |

| Name | Explanation |
|------------------------|--|
| Ix | digital input x |
| Ox | digital output x |
| 24V _{ext.out} | sensor supply |
| 0V _{ext.out} | GND for outputs (PNP) |
| 24V _{ext.in} | input for power supply, out of external voltage, positive pole |
| 0V _{ext.in} | input for power supply, out of external voltage, negative pole |
| ASi +, ASi - | connection to ASi bus |

| Connections | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------------------------------|---|------------|------------------------|----|-------------------------|----|-----------------------|----|-------------------------|----|-------|----|------------------------|----|-------|----|------------------------|----|-------------------------|----|------------------------|----|-------------------------|----|------------------------|----|----|--------------------------|--|-------------|--------------------------------------|
| BW2137, BW2175 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Terminal A | Terminal B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | I1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | I2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | O1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | O2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | O3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 0 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | O4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Addressing socket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDR | connection for ASi addressing device | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | I3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | I4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Connections | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|---|-------------------------|------------|----|------------|----|---|-------------------------|----|------------------------|----|----|-------------------|------------------------|---|-------------------------|---|-----------------------|-------------------|----|----|-----------------------|----|------------------------|--|-------|----|----|----|-------|-------------------|------------------------|----|-------|----|----|----|-------|---|------------------------|----|-------------------------|----|----|-------------------|----|----|------------------------|----|-------------------------|----|------|----|----|
| BW2139 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | 4 | 6 | 8 | 10 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 15 | 17 | 19 | 21 | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 16 | 18 | 20 | 22 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Terminal A | | Terminal B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 24 V _{ext out} | 13 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | I1 | 14 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 24 V _{ext out} | 15 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | I2 | 16 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0 V _{ext out} | 17 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | O1 | 18 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 V _{ext out} | 19 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | O2 | 20 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 0 V _{ext out} | 21 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | O3 | 22 | I3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 0 V _{ext out} | 23 | 24 V _{ext out} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | n.c. | 24 | I4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Addressing socket | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDR connection for ASi addressing device | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BW2138 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | 3 | 5 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 4 | 6 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 11 | 13 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 12 | 14 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminal B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th colspan="2">Terminal A</th> <th colspan="2">Terminal B</th> </tr> </thead> <tbody> <tr><td>1</td><td>0 V_{ext out}</td><td>9</td><td>24 V_{ext in}</td></tr> <tr><td>2</td><td>O1</td><td>10</td><td>24 V_{ext in}</td></tr> <tr><td>3</td><td>0 V_{ext out}</td><td>11</td><td>0 V_{ext in}</td></tr> <tr><td>4</td><td>O2</td><td>12</td><td>0 V_{ext in}</td></tr> <tr><td>5</td><td>0 V_{ext out}</td><td>13</td><td>ASi +</td></tr> <tr><td>6</td><td>O3</td><td>14</td><td>ASi +</td></tr> <tr><td>7</td><td>0 V_{ext out}</td><td>15</td><td>ASi -</td></tr> <tr><td>8</td><td>O4</td><td>16</td><td>ASi -</td></tr> </tbody> </table> | | Terminal A | | Terminal B | | 1 | 0 V _{ext out} | 9 | 24 V _{ext in} | 2 | O1 | 10 | 24 V _{ext in} | 3 | 0 V _{ext out} | 11 | 0 V _{ext in} | 4 | O2 | 12 | 0 V _{ext in} | 5 | 0 V _{ext out} | 13 | ASi + | 6 | O3 | 14 | ASi + | 7 | 0 V _{ext out} | 15 | ASi - | 8 | O4 | 16 | ASi - | | | | | | | | | | | | | | | | |
| Terminal A | | Terminal B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 V _{ext out} | 9 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | O1 | 10 | 24 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 0 V _{ext out} | 11 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | O2 | 12 | 0 V _{ext in} | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0 V _{ext out} | 13 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | O3 | 14 | ASi + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 V _{ext out} | 15 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | O4 | 16 | ASi - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Accessories:

- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)