

Active Distributor ASI, IP67

1 x connector for profile cable

Periphery connection via
2 x round cable/connecting wires



(Figure similar)

| Figure | Inputs digital | Outputs digital | Input voltage (sensor supply) ⁽¹⁾ | Output voltage (actuator supply) ⁽²⁾ | Connection ⁽³⁾ | ASi address ⁽⁴⁾ | Special function | Art. no. |
|--------|----------------|-----------------|--|---|--------------------------------------|----------------------------|------------------|----------------|
| | 4 | – | out of ASi | – | 2 x round cable/ connecting wires | 1 AB address | – | BWU4923 |

(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) **Connection:** further connection options are available on request.

| M12 cable socket, angled | M12 cable socket, straight | M8 cable socket, straight | round cable / connecting wires | Push in terminals |
|--------------------------|----------------------------|---------------------------|--------------------------------|-------------------|
| PUR line: oil resistant | | | | |
| | | | | |

(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.

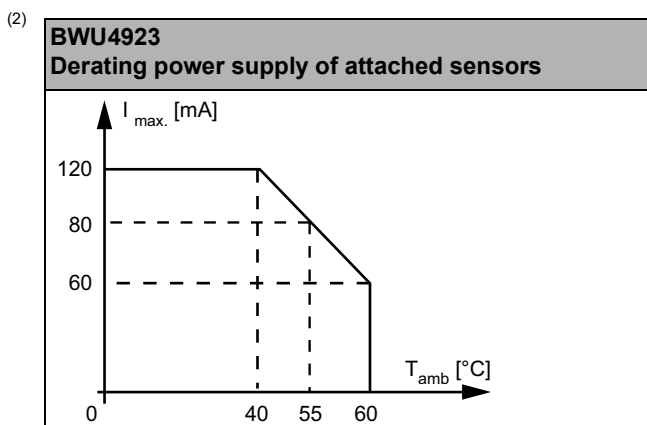
| | | |
|--|---|----------------------------------|
| Article No. | | BWU4923 |
| General data | | |
| Device type | input | |
| Connection | | |
| ASi/AUX connection | profile cable and piercing | |
| Periphery connection | 2 x round cable/connecting wires | |
| M12 wiring ⁽¹⁾ | - | |
| Round cable | 5 m | max. allowed tensile strain 10 N |
| ASi | | |
| Profile | S-0.A.E (ID1=7 fixed) | |
| Address | 1 AB address | |
| Required Master profile | ≥M3 | |
| As of ASi specification | 2.1 | |
| Operating voltage | 30 V (18 ... 31.6 V) | |
| Max. current consumption | 165 mA | |
| Max. current consumption without sensor/ actuator supply | 45 mA | |
| Input | | |
| Number | 4 | |
| Power supply | out of ASi | |
| Power supply of attached sensors | up to +40 °C | 120 mA ⁽²⁾ |
| | at +55 °C | 80 mA ⁽²⁾ |
| | at +60 °C | 60 mA ⁽²⁾ |
| Switching threshold | U<5 V (low) U>15 V (high) | |
| Display | | |
| LED ASi/FLT (red/green) | green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault ⁽³⁾ off: no ASi voltage | |
| LEDs I1 ... In (yellow) | state of inputs I1 ... I4 | |
| Environment | | |
| Applied standards | EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529 | |
| It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe | yes ⁽⁴⁾ | |
| Operating altitude | max. 2000 m | |
| Ambient temperature | -30 °C ... +60 °C ^{(2) (5)} | |
| Storage temperature | -25 °C ... +85 °C | |
| Housing | plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth) | |
| Pollution degree | 2 | |
| Protection category | IP67 ⁽⁶⁾ | |
| Maximum tolerable shock and vibration stress | ≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude | |
| Insulation voltage | ≥500 V | |
| Weight | 100 g | |
| Dimensions (W / H / D) in mm | 60 / 45 / 35 | |

⁽¹⁾ **M12 wiring:**

Single wiring: 1 input or output per connection.

Y wiring: 2 inputs or outputs per connection.

Mixed wiring: 1 input and 1 output per connection.



- (3) see table "Peripheral fault indication"
- (4) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.
- (5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (6) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

| Article no. | Peripheral fault indication | | |
|-------------|-----------------------------|------------------------|---------------------|
| | Overload sensor supply | Output short circuited | AUX voltage missing |
| BWU4923 | • | - | - |

| Programming | ASi bit assignment | | | |
|-------------|--------------------|----|----|----|
| | D3 | D2 | D1 | D0 |
| | input | | | |
| BWU4923 | I4 | I3 | I2 | I1 |

| Programming | ASi bit assignment | | | |
|-------------|--------------------|--|--|------------------------------|
| | parameter bit | | | |
| | P3 | P2 | P1 | P0 |
| BWU4923 | not used | 0= on / 1= off (synchronous I/O mode) | 0= on / 1= off (data input filter 128 µs) | 0= off / 1= on (Watchdog) |

Pin assignment

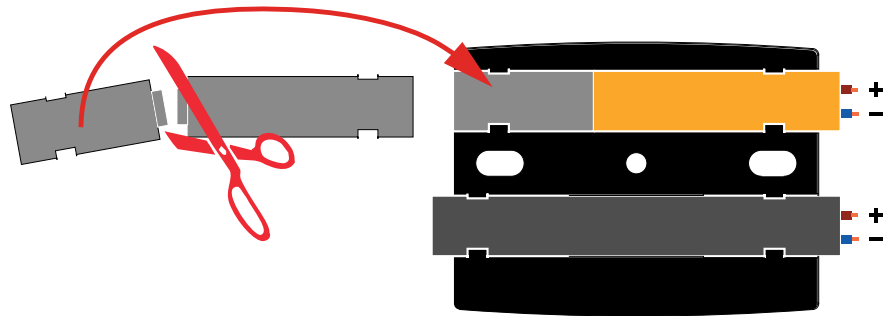
| Signal name | Explanation |
|---------------------------|---|
| I _x | digital input x |
| O _x | digital output x |
| 24V _{ext out} | power supply, out of external voltage, positive pole (AUX, actuator supply) |
| 0V _{ext out} | power supply, out of external voltage, negative pole (AUX, actuator supply) |
| 24V _{out of ASi} | power supply, out of ASi, positive pole (sensor supply) |
| 0V _{out of ASi} | power supply, out of ASi, negative pole (sensor supply) |
| ASi +, ASi - | connection to ASi bus |
| n.c. (not connected) | not connected |

| Connections: round cable/connecting wires | | | | | | | | | | | |
|---|---------|-----------------|----|---------------------------|----|----|----|----|----|----|----|
| Article no. | connec. | BN | WH | BU | BK | PK | GY | RD | GN | YE | OG |
| BWU4923 | X1 | 24 V out of ASi | I4 | 0 V _{out of ASi} | I3 | - | - | - | - | - | - |
| | X2 | 24 V out of ASi | I2 | 0 V _{out of ASi} | I1 | - | - | - | - | - | - |

Line termination with sealing profile



max. IP54



Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)
- Bihl+Wiedemann Safety Suite License - Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)