

# Active Distributor ASi, IP67



2 x connectors for profile cable

Periphery connection via  
1 x M12 cable socket, straight, 5 poles



(Figure similar)

| Figure | Inputs digital | Outputs digital | Input voltage (sensor supply) <sup>(1)</sup> | Output voltage (actuator supply) <sup>(2)</sup> | Connection <sup>(3)</sup>                             | ASi address <sup>(4)</sup> | Special function | Art. no.       |
|--------|----------------|-----------------|----------------------------------------------|-------------------------------------------------|-------------------------------------------------------|----------------------------|------------------|----------------|
|        | -              | 4 x electronic  | -                                            | out of AUX                                      | 1 x round cable<br>M12 cable socket, straight, 5-pole | 1 AB address               | -                | <b>BWU4763</b> |

- (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 and abrasion resistant, appropriate for conveyor chains |                            |                           |                                |                   |
|                                                                       |                            |                           |                                |                   |

- (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 second ASi node is turned off as long as the first ASi node is addressed to address "0".  
Upon request, ASi nodes are available with specific ASi address profiles.

|                                                             |              |                                                                                                                                                                                                                                   |  |
|-------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Article No.                                                 |              | BWU4763                                                                                                                                                                                                                           |  |
| General data                                                |              |                                                                                                                                                                                                                                   |  |
| Device type                                                 |              | output                                                                                                                                                                                                                            |  |
| Connection                                                  |              |                                                                                                                                                                                                                                   |  |
| ASi /AUX connection                                         |              | profile cable and piercing                                                                                                                                                                                                        |  |
| Periphery connection                                        |              | 1 x round cable/<br>M12 cable socket, straight                                                                                                                                                                                    |  |
| Round cable                                                 |              | 10 m                                                                                                                                                                                                                              |  |
|                                                             |              | allowed tensile strain 10 N                                                                                                                                                                                                       |  |
| ASi                                                         |              |                                                                                                                                                                                                                                   |  |
| Profile                                                     |              | S-7.A.7 (ID1=7 fixed)                                                                                                                                                                                                             |  |
| Address                                                     |              | 1 AB address                                                                                                                                                                                                                      |  |
| Required Master profile                                     |              | ≥M4                                                                                                                                                                                                                               |  |
| As of ASi specification                                     |              | 3                                                                                                                                                                                                                                 |  |
| Operating voltage                                           |              | === 30 V (18 ... 31.6 V)                                                                                                                                                                                                          |  |
| Max. current consumption                                    |              | 35 mA                                                                                                                                                                                                                             |  |
| Max. current consumption<br>without sensor/ actuator supply |              | 35 mA                                                                                                                                                                                                                             |  |
| AUX                                                         |              |                                                                                                                                                                                                                                   |  |
| Operating voltage                                           |              | === 24 V (18 ... 30 V <sub>DC</sub> )                                                                                                                                                                                             |  |
| Max. current consumption                                    |              | 1 A                                                                                                                                                                                                                               |  |
| Output                                                      |              |                                                                                                                                                                                                                                   |  |
| Number                                                      |              | 4                                                                                                                                                                                                                                 |  |
| Power supply                                                |              | out of AUX                                                                                                                                                                                                                        |  |
| Max. output<br>current                                      | up to +50 °C | 250 mA per output,<br>Σ (Out) 1 A                                                                                                                                                                                                 |  |
|                                                             | at +60 °C    |                                                                                                                                                                                                                                   |  |
|                                                             | at +70 °C    |                                                                                                                                                                                                                                   |  |
| Display                                                     |              |                                                                                                                                                                                                                                   |  |
| LED ASi/FLT (red/green)                                     |              | green: ASi voltage OK, ASi node online<br>green/red: ASi voltage on, but ASi node offline<br>green flashing/red: address 0<br><br>alternating green flashing/red flashing: peripheral fault <sup>(1)</sup><br>off: no ASi voltage |  |
| LED AUX (green)                                             |              | on: 24 V <sub>DC</sub> AUX<br>off: no 24 V <sub>DC</sub> AUX                                                                                                                                                                      |  |
| LED O1 ... On (yellow)                                      |              | state of outputs O1 ... O4                                                                                                                                                                                                        |  |

|                                                                                  |                                                                                   |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Article No.</b>                                                               | <b>BWU4763</b>                                                                    |
| <b>Environment</b>                                                               |                                                                                   |
| Applied standards                                                                | EN 61000-6-2<br>EN 61000-6-3<br>EN 61131-2<br>EN 60529                            |
| It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe | yes <sup>(2)</sup>                                                                |
| Operating altitude                                                               | max. 2000 m                                                                       |
| Ambient temperature                                                              | -30 °C ... +70 °C                                                                 |
| Storage temperature                                                              | -25 °C ... +85 °C                                                                 |
| Intended environment                                                             | for indoor use only <sup>(3)</sup>                                                |
| Housing                                                                          | plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth) |
| Pollution degree                                                                 | 2                                                                                 |
| Protection category                                                              | IP67 <sup>(4)</sup> <sup>(5)</sup>                                                |
| Overvoltage category                                                             | II                                                                                |
| Tolerable loading referring to humidity                                          | according to EN 61131-2                                                           |
| Maximum tolerable shock and vibration stress                                     | ≤15g, T≤11 ms<br>10 ... 55 Hz, 0,5 mm amplitude                                   |
| Insulation voltage                                                               | ≥ 500 V                                                                           |
| Weight                                                                           | 370 g                                                                             |
| Dimensions (W / H / D) in mm                                                     | 60 / 45 / 19                                                                      |

(1) see table "Peripheral fault indication"

(2) BWU4763 from Ident. No. ≥19071; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

(3) Intended environment according to UL certificate for the use in the USA and Canada.

(4) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

(5) Manufacturer specification, IP rating not evaluated by UL.

|                                    |                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UL-specifications (UL61010)</b> |                                                                                                                                                                                |
| <b>BWU4763</b>                     |                                                                                                                                                                                |
| Model <sup>(1)</sup>               | PCB.DBA1-4763                                                                                                                                                                  |
| External protection                | The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1. |

(1) See reference of UL file E227214 "Programmable Controllers "Active Distributor Family""

| Article no. | Peripheral fault indication |                        |                     |
|-------------|-----------------------------|------------------------|---------------------|
|             | Overload sensor supply      | Output short circuited | AUX voltage missing |
| BWU4763     | –                           | •                      | •                   |

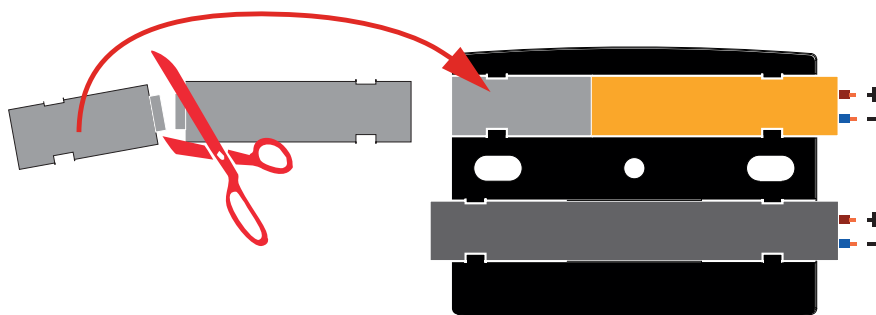
| Programming | ASi bit assignment |                                          |          |                              |
|-------------|--------------------|------------------------------------------|----------|------------------------------|
|             | parameter bit      |                                          |          |                              |
|             | P3                 | P2                                       | P1       | P0                           |
| BWU4763     | not used           | 0= on / 1= off<br>(synchronous I/O mode) | not used | 0= off / 1= on<br>(Watchdog) |

## Pin assignment

| Signal name           | Explanation                                                                 |
|-----------------------|-----------------------------------------------------------------------------|
| Ox                    | digital output x                                                            |
| 0V <sub>ext out</sub> | power supply, out of external voltage, negative pole (AUX, actuator supply) |
| ASi +, ASi -          | connection to ASi bus                                                       |
| n.c. (not connected)  | not connected                                                               |

| Connections: M12 cable socket, straight, 5 poles                                  |                                                                                                                                |      |      |      |      |                |                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|----------------|------------------------------------------------------------------------------------|
| Artikel Nr.                                                                       | M12 connection                                                                                                                 | Pin1 | Pin2 | Pin3 | Pin4 | Pin5           |                                                                                    |
| BWU4763                                                                           | X1                                                                                                                             | O1   | O2   | O3   | O4   | 0 V<br>ext out |  |
|  | The reference potential of sensors/actuators has to be connected with the reference potential of the active distributor (AUX). |      |      |      |      |                |                                                                                    |

## Line termination with sealing profile



## Accessories:

- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)