

ASi Safety I/O-Module

up to 8 x 2 channel safe inputs (depending on configuration),

adjustable for
floating contacts, OSSDs, antivalent OSSDs or complementary
switches resp. as
standard inputs and standard outputs

and

up to 2 release circuits (up to 2 x electronic safe outputs)
(depending on configuration)



(Figure similar)

Memory Plug

protection category IP67



| Figure | Inputs Safety, SIL 3, cat. 4 | Safety signal inputs | Outputs Safety, SIL 3, cat. 4 | Input voltage (sensor supply.) ⁽¹⁾ | Output voltage (actuator supply.) ⁽²⁾ | ASi connection ⁽³⁾ | ASi address ⁽⁴⁾ | Article no. |
|--------|----------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|-------------------------------|----------------------------|---------------|
| | 6-8 x 2 channels; depending on configuration | floating contacts, OSSDs, antivalent OSSDs, complementary switch | up to 2 release circuits; up to 2 x electronic safe outputs; depending on configuration | out of ASi | out of ASi | ASi profile cable | depending on configuration | BW3489 |
| | 6-8 x 2 channels; depending on configuration | floating contacts, OSSDs, antivalent OSSDs, complementary switch | up to 2 release circuits; up to 2 x electronic safe outputs; depending on configuration | out of ASi | out of ASi | ASi using M12 | depending on configuration | BW3499 |

(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 24V power) is either 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 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.

ASi Safety I/O Module, IP67, M12, 6-8SI/2SO/16I/16O



| Article no. | BW3499 | BW3489 |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| Connection | | |
| ASi/AUX connection | M12 ⁽¹⁾ | profile cable and piercing technology |
| Periphery connection | | M12 |
| Length of connector cable | | unlimited ⁽²⁾ |
| ASi | | |
| Profile | safe ASi input nodes: S-7.B.0 (ID1=F) and S-7.B.1 (ID1=F) ASi diagnostic nodes: S-7.A.E (ID1=5) 4I/4O ASi nodes: S-7.E (ID1=F) ASi configuration node: S-7.A.5 (ID1=7) | |
| Addresses | depending on configuration | |
| Required Master profile | ≥M4 | |
| Since ASi specification | 3.0 | |
| Operating voltage | 30 V _{DC} (18 ... 31,6 V) | |
| Max. current consumption | 420 mA | |
| Max. current consumption without sensor/actuator supply | 100 mA | |
| Input | | |
| Number | 6-8 x 2 channels safe inputs (SIL3, cat. 4, PLe) up to 16 standard inputs ⁽³⁾ | |
| safety signal inputs | floating contacts, OSSDs, antivalent OSSDs, or complementary switches ⁽³⁾⁽⁴⁾ | |
| Switching current | 15 mA (T = 100µs), continuously 4 mA at 24 V | |
| Power supply | out of ASi | |
| Max. current for OSSD | Σ (In/Out)<320 mA | |
| OSSD test pulses | 0 ... 50 Hz | |
| OSSD test pulse width | 0 ... 1 ms | |
| input level | 10 mA, R < 150 Ω | |
| Clock outputs for floating contacts / antivalent switches | 1 test pulse per clock output per second, pulse duration approx. 1 ms | |
| Output | | |
| Number | up to 2 release circuits; up to 2 x electronic safe outputs ⁽³⁾ up to 16 standard outputs ⁽³⁾ | |
| Power supply | out of ASi | |
| Max. output current | Σ (In/Out/Pin5)<320 mA max. 100 mA for Diag. Out/Clock/Reset (Pin5), Σ (Pin5)<100 mA | |
| Test pulse | if output is on: minimum interval between 2 test pulses: 250 ms, pulse width: 2 ms | |
| Display | | |
| LEDs S11/S12 ... S81/S82 (yellow) | state of safe input channels S11/S12 ... S81/S82 ⁽³⁾ | |
| LED SO1, SO2 (yellow) | state of safe outputs SO1, SO2 ⁽³⁾ | |
| LED ASI (green) | on: ASi voltage on flashing: ASi voltage on, but peripheral fault ⁽⁵⁾ or address 0 off: no ASi voltage | |
| LED FLT/FAULT (red) | on: ASi address 0 or node off line flashing: peripheral fault ⁽⁵⁾ off: node on line | |
| LED MP (green / yellow / red) | off: no memory plug plugged in or memory plug defect green: memory plug plugged in and recognized yellow flashing: copying configuration from memory plug to unconfigured module or from module to empty memory plug red: configuration on memory plug and device different ⁽⁵⁾ or configuration on memory plug incompatible with the device | |

ASi Safety I/O Module, IP67, M12, 6-8SI/2SO/16I/16O

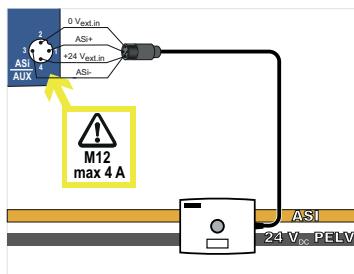
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| Article no. | BW3499 | BW3489 |
|----------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------|
| Environment | | |
| Applied standards | | EN 61000-2 EN 61000-3 EN 61131-2 EN 62061 EN ISO 13849-1 EN 60529 |
| It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe | | yes ⁽⁶⁾ |
| Operating altitude | | max. 2000 m |
| Ambient operating temperature | | 0 °C ... +55 °C |
| Storage temperature | | -25 °C ... +85 °C |
| Housing | | plastic, for screw mounting |
| Pollution Degree | | 2 |
| Protection category | | IP67 ⁽⁷⁾ |
| Tolerable loading referring to humidity | | according to EN 61131-2 |
| Max. tolerable shock load | | 30g, 11 ms, acc. EN 61131-2 |
| Max. tolerable vibration stress | | 5 ... 8 Hz 50 mm _{pp} /8 ... 500 Hz 6g, acc. EN 61131-2 |
| Voltage of insulation | | ≥500 V |
| Weight | | 225 g |
| Dimension (W / H / D in mm) | | 60 / 151 / 46 |

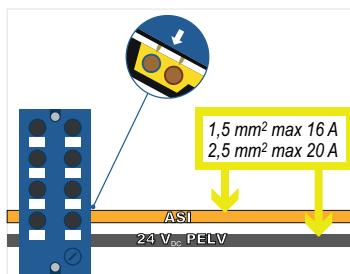
(1) **Line protection:**

If the module is supplied via a M12 connection with A or B coding, it may only be used with a current load of max. 4 A per pin in acc. with IEC 61076-2-101 and IEC 61076-2-109. A fused tap is recommended. There is no such limitation for modules supplied via piercing contacts.

**Connection to ASi and AUX
via M12**



via piercing contacts



(2) loop resistance ≤150 Ω

(3) siehe "Configuration options of connections of BW3489, BW3499"

(4) BW3489: antivalent OSSDs from Ident. No. ≥21434
BW3499: antivalent OSSDs from Ident. No. ≥21436

(5) See table "Peripheral fault indication"

(6) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.

(7) IP67 can only be achieved if all open M12 sockets are sealed with suitable protection caps (see accessories).

| Article no. | Peripheral fault indication | | | |
|---------------|-----------------------------|-----------------|---------------------|---------------------------------------------------|
| | Cross connection | Overload output | AUX voltage missing | configuration on memory plug and device different |
| BW3489 | • | • | - | • |
| BW3499 | • | • | - | • |

| UL-specifications (UL 61010) BW3489, BW3499 | |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| External protection | An isolated source with a secondary open circuit voltage of $\leq 30 \text{ V}_{\text{DC}}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed. |
| In general | UL mark does not provide UL certification for any functional safety rating or aspects of the above devices. |

Configuration options of connections of **BW3489, BW3499**

| Connection | Safe electronic output | 2 channels safe input | | | 2 standard inputs / 2 standard output |
|---------------------------------|------------------------|-----------------------|----------------------------|-----------|------------------------------------------|
| | | for floating contacts | for complementary switches | for OSSDs | |
| S11/S12 | - | • | • | • | •/• (1) |
| S21/S22 | - | • | • | • | •/• |
| S31/S32 | - | • | • | • | •/• |
| S41/S42 | - | • | • | • | •/• |
| S51/S52 | - | • | • | • | •/• |
| S61/S62 | - | • | • | • | •/• |
| SO1 ⁽²⁾ , S71/S72 | • | • | • | • | •/• |
| SO2 ⁽²⁾ , S81/S82 | • | • | • | • | •/• |

(1) The safe output of node 1 can be configured as a standard output by setting parameter P0=0.

(2) If outputs are configured as inputs, the input current has to be limited by an external element at $\leq 100 \text{ mA}$

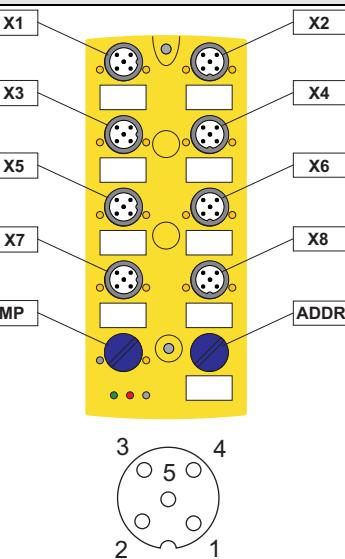
Pin assignment

| Signal name | Explanation |
|---------------------------|---------------------------------------------------------------------------------------------------------------|
| Sx1/Sx2 | safe input x, configurable for floating contacts or OSSDs, anviant OSSDs, reps. as standard inputs (standard) |
| Ix | standard input x |
| Ox | standard output x |
| SOx | safe electronic output x |
| T1, T2 | clock output |
| 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 |

ASi Safety I/O Module, IP67, M12, 6-8SI/2SO/16I/16O

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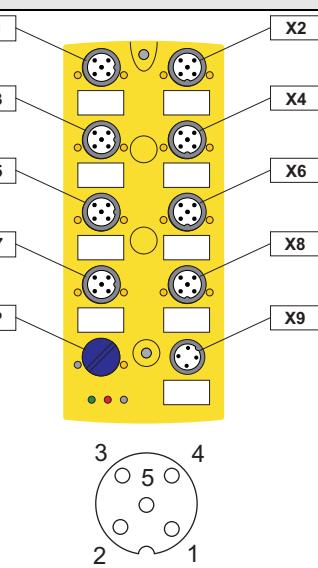
| Connections | | | | | | | | | | | |
|------------------------------------------------------------|-------------------|---------|--------------------------|------------------------------------|------|-------------------|------|-------|--|--|--|
| Article no. | M12 connec. t. | Marking | Configura- tion | Pin1 | Pin2 | Pin3 | Pin4 | Pin5 | | | |
| BW3489 | X1 | S11/S12 | standard.in/ diag.out | O2/ 24 V _{out of ASi} | I2 | 0 V out of ASi | I1 | O1 | | | |
| | | | float. cont. | T2 | S12 | n.c. | S11 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S12 | 0 V out of ASi | S11 | Reset | | | |
| | X2 | S21/S22 | standard.in/ diag.out | O4/ 24 V _{out of ASi} | I4 | 0 V out of ASi | I3 | O3 | | | |
| | | | float. cont. | T2 | S22 | n.c. | S21 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S22 | 0 V out of ASi | S21 | Reset | | | |
| | X3 | S31/S32 | standard.in/ diag.out | O6/ 24 V _{out of ASi} | I6 | 0 V out of ASi | I5 | O5 | | | |
| | | | float. cont. | T2 | S32 | n.c. | S31 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S32 | 0 V out of ASi | S31 | Reset | | | |
| | X4 | S41/S42 | standard.in/ diag.out | O8/ 24 V _{out of ASi} | I8 | 0 V out of ASi | I7 | O7 | | | |
| | | | float. cont. | T2 | S42 | n.c. | S41 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S42 | 0 V out of ASi | S41 | Reset | | | |
| | X5 | S51/S52 | standard.in/ diag.out | O10/ 24 V _{out of ASi} | I10 | 0 V out of ASi | I9 | O9 | | | |
| | | | float. cont. | T2 | S52 | n.c. | S51 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S52 | 0 V out of ASi | S51 | Reset | | | |
| | X6 | S61/S62 | standard.in/ diag.out | O12/ 24 V _{out of ASi} | I12 | 0 V out of ASi | I11 | O11 | | | |
| | | | float. cont. | T2 | S62 | n.c. | S61 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S62 | 0 V out of ASi | S61 | Reset | | | |
| | X7 | SO1 | safety out | n.c. | SO1- | 0 V out of ASi | SO1+ | n.c. | | | |
| | | | standard.in/ diag.out | O14/ 24 V _{out of ASi} | I14 | 0 V out of ASi | I13 | O13 | | | |
| | | | float. cont. | T2 | S72 | n.c. | S71 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S72 | 0 V out of ASi | S71 | Reset | | | |
| | X8 | SO2 | safety out | n.c. | SO2- | 0 V out of ASi | SO2+ | n.c. | | | |
| | | | standard.in/ diag.out | O16/ 24 V _{out of ASi} | I16 | 0 V out of ASi | I15 | O15 | | | |
| | | | float. cont. | T2 | S82 | n.c. | S81 | T1 | | | |
| | | | OSSD | 24 V _{out of ASi} | S82 | 0 V out of ASi | S81 | Reset | | | |
| ADDR connection for ASi-3 addressing plug (protection cap) | | | | | | | | | | | |
| MP memory plug (protection cap) | | | | | | | | | | | |



ASi Safety I/O Module, IP67, M12, 6-8SI/2SO/16I/16O

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| Connections | | | | | | | | |
|-------------|-------------------|---------|------------------------------|------------------------------------|------|-------------------|------|-------|
| Article no. | M12 connec. t. | Marking | Configura- tion | Pin1 | Pin2 | Pin3 | Pin4 | Pin5 |
| BW3499 | X1 | S11/S12 | standard.in/ diag.out | O2/ 24 V _{out of ASi} | I2 | 0 V out of ASi | I1 | O1 |
| | | | float. cont. | T2 | S12 | n.c. | S11 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S12 | 0 V out of ASi | S11 | Reset |
| | X2 | S21/S22 | standard.in/ diag.out | O4/ 24 V _{out of ASi} | I4 | 0 V out of ASi | I3 | O3 |
| | | | float. cont. | T2 | S22 | n.c. | S21 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S22 | 0 V out of ASi | S21 | Reset |
| | X3 | S31/S32 | standard.in/ diag.out | O6/ 24 V _{out of ASi} | I6 | 0 V out of ASi | I5 | O5 |
| | | | float. cont. | T2 | S32 | n.c. | S31 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S32 | 0 V out of ASi | S31 | Reset |
| | X4 | S41/S42 | standard.in/ diag.out | O8/ 24 V _{out of ASi} | I8 | 0 V out of ASi | I7 | O7 |
| | | | float. cont. | T2 | S42 | n.c. | S41 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S42 | 0 V out of ASi | S41 | Reset |
| | X5 | S51/S52 | standard.in/ diag.out | O10/ 24 V _{out of ASi} | I10 | 0 V out of ASi | I9 | O9 |
| | | | float. cont. | T2 | S52 | n.c. | S51 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S52 | 0 V out of ASi | S51 | Reset |
| | X6 | S61/S62 | standard.in/ diag.out | O12/ 24 V _{out of ASi} | I12 | 0 V out of ASi | I11 | O11 |
| | | | float. cont. | T2 | S62 | n.c. | S61 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S62 | 0 V out of ASi | S61 | Reset |
| | X7 | SO1 | safety out | n.c. | SO1- | 0 V out of ASi | SO1+ | n.c. |
| | | | standard.in/ diag.out | O14/ 24 V _{out of ASi} | I14 | 0 V out of ASi | I13 | O13 |
| | | | float. cont. | T2 | S72 | n.c. | S71 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S72 | 0 V out of ASi | S71 | Reset |
| | X8 | SO2 | safety out | n.c. | SO2- | 0 V out of ASi | SO2+ | n.c. |
| | | | standard.in/ diag.out | O16/ 24 V _{out of ASi} | I16 | 0 V out of ASi | I15 | O15 |
| | | | float. cont. | T2 | S82 | n.c. | S81 | T1 |
| | | | OSSD | 24 V _{out of ASi} | S82 | 0 V out of ASi | S81 | Reset |
| | X9 | | ASi | ASi+ | n.c. | ASi- | n.c. | - |
| | MP | | memory plug (protection cap) | | | | | |



Programming instructions (bit assignment of standard I/O nodes)

| Bit | ASi bit assignment | | | |
|---------------|--------------------|------|---------------------------------------------------|----------------------------------------------------------------------------------------------------|
| | D3 | D2 | D1 | D0 |
| input | | | | |
| Node 1 | I4 | I3 | I2 | I1 |
| Node 2 | I8 | I7 | I6 | I5 |
| Node 3 | I12 | I11 | I10 | I9 |
| Node 4 | I16 | I15 | I14 | I13 |
| output | | | | |
| Node 1 | O4 | O3 | if P0=1: X8 output: SO2 if P0=0: X1 output: O2 | if P0=1: X7 output: SO1 if P0=0: X1 output: O1 |
| Node 2 | O8 | O7 | O6 | O5 |
| Node 3 | O12 | O11 | O10 | O9 |
| Node 4 | O16 | O15 | O14 | O13 |
| parameter bit | | | | |
| | P3 | P2 | P1 | P0 |
| Node 1 | free | free | free | P0=1: SOx can be switch off via the output bit. O2 = +24V; O1 = 0V P0=0: no influence on SOx |
| Node 2 | free | free | free | free |
| Node 3 | free | free | free | free |
| Node 4 | free | free | free | free |

Programming instructions (bit assignment of ASi safety input nodes 1...8)

| Bit | ASi bit assignment | | | |
|--------------------|--------------------|------------------------|------|------|
| | D3 | D2 | D1 | D0 |
| input | | | | |
| safety input nodes | Sx2 | | Sx1 | |
| output | | | | |
| | free | if OSSD: reset (Pin 5) | free | free |
| parameter bit | | | | |
| | P3 | P2 | P1 | P0 |
| | free | free | free | free |

Programming instructions (bit assignment of ASi diagnostic nodes 1 and 2)

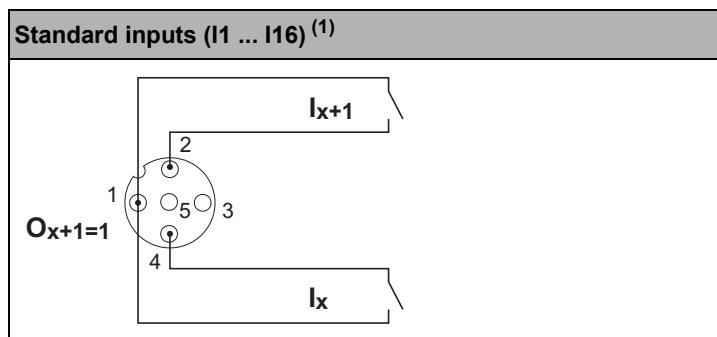
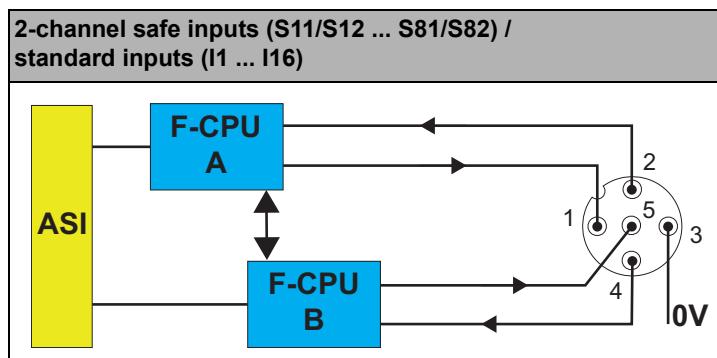
| Bit | ASi bit assignment | | | |
|-----------------|--------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------|
| | D3 | D2 | D1 | D0 |
| input | | | | |
| diagnostic node | I3 | | diagnsotics (see table device colors) | |
| output | | | | |
| | free | free | free | O0 |
| parameter bit | | | | |
| | P3 | P2 | P1 | P0 |
| | free | P2=1: feedback input Ix (x=1, 3) at I3 P2=0: feedback of release conditions at I3 | P1=1: not used P1=0: if O0=0, the safe output SOx (n=1, 2) will be switched off, regardless of the release | free |

Release conditions

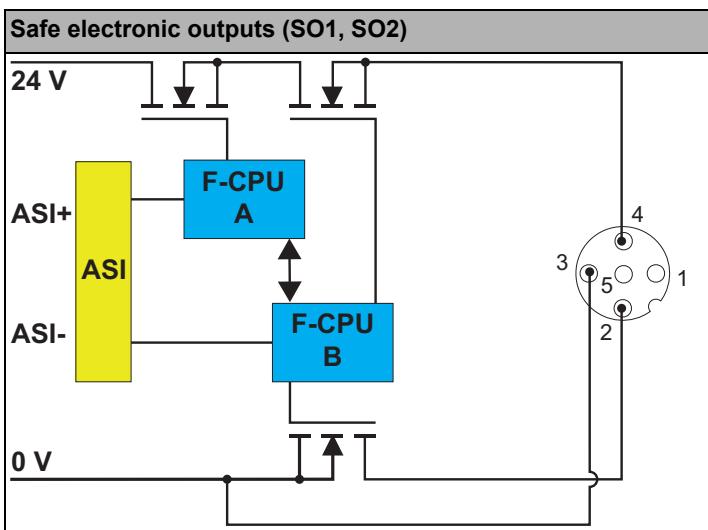
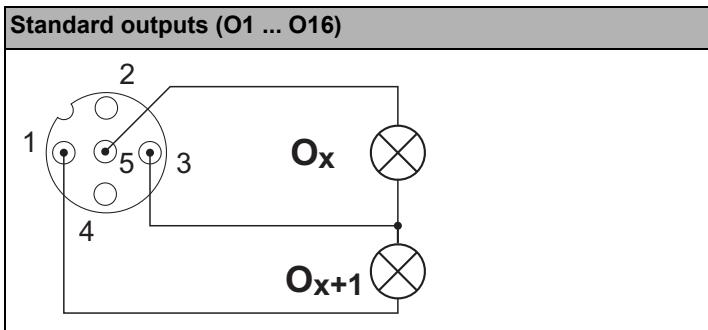
| | | ASi Standard I/O nodes | | |
|----------------------|------------------|------------------------|--------------------------|--------------------------|
| | | ASi node 1 | | |
| | | Parameter P0 = 0 | Parameter P0 = 1 | |
| | | | Bit D _{x-1} = 0 | Bit D _{x-1} = 1 |
| ASi diagnostic nodes | ASi node 1 and 2 | Parameter P1 = 1 | SOx = release | SOx = off |
| | | Parameter P1 = 0 | SOx = release | SOx = off |
| | | Bit O0 = 0 | SOx = off | SOx = off |

Diagnostics (device colors)

| Value | Color | Description | State change | LED SOx |
|-------|-----------------|----------------------------------------------------------|-----------------------------------|-------------------|
| 0 | green | output on | — | on |
| 1 | green flashing | — | — | — |
| 2 | yellow | restart inhibit | auxiliary signal 2 | 1 Hz |
| 3 | yellow flashing | — | — | — |
| 4 | red | output off | — | off |
| 5 | red flashing | waiting for "reset of error condition" or AUX is missing | auxiliary signal 1 or connect AUX | 8 Hz |
| 6 | gray | internal error, such as "fatal error" | only via "Power ON" on device | all LEDs flashing |
| 7 | green/yellow | output released, but not switched on | switching-on by setting of O0 | off |



⁽¹⁾ O_{x+1}=1 must remain on so that 24V is present on Pin 1.



LED status display

| LED | State | Signal / Description |
|---------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------|
| AUX (green) | ∅ | no 24 V _{DC} AUX |
| | ● | 24 V _{DC} AUX present |
| ASI (green) | ∅ | no ASi voltage |
| | ● 1 Hz | ASi voltage present, but at least one ASi node is addressed „0“ or peripheral fault |
| | ● | ASi voltage present |
| FLT (red) | ∅ | ASi communication OK (at least one ASi node on line) |
| | ● 1 Hz | at least one ASi node with peripheral fault |
| | ● | no data exchange (with at least one correctly addressed ASi node) |
| MP (green / yellow / red) | ∅ | no memory plug plugged in or memory plug defect |
| | ● 1 Hz | copying configuration from memory plug to unconfigured module or from module to empty memory plug |
| | ● | memory plug plugged in and recognized |
| | ● | configuration on memory plug and device different or configuration incompatible with the device, user intervention is required. |

| LED | State | Signal / Description |
|------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| S11/S12 ... S81/S82 (yellow) | ∅ | safety input channel is switched off |
| | 1 Hz | cross-connection |
| | 8 Hz | internal error or double address |
| | | safety input channel is switched on |
| SO1, SO2 (yellow) | ∅ | safety output is switched off |
| | 1 Hz | restart block, waiting for the start signal to switch on the safety output again |
| | 8 Hz | unlockable error state; waiting for "reset of error condition signal", after receiving the signal the device turns into normal operation |
| | | safety output is switched on |
| | LED on | LED on |
| | LED flashing | ∅ LED off |

| | |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | In case all LEDs are blinking simultaneously in fast rhythm a fatal error has been detected. This message is reset by a short disconnection of the power supply (Power ON Reset). |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Accessories for BW3489:

- Bihl-Wiedemann Suite - Safety Software for Configuration, Diagnostics and Programming (art. no. BW2916)
- ASi substructure module (CNOMO) for 8 channel module in 60 mm housing (art. no. BWU2351)
- Memory Plug, memory capacity 32 kByte (art. no. BW3241)
- Universal protection cap ASi-5/ASi-3 for M12 sockets, IP67 (art. no. BW4056)
- Memory plug cover (art. no. BW3155)
- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)

Accessories for BW3499:

- Bihl-Wiedemann Suite - Safety Software for Configuration, Diagnostics and Programming (art. no. BW2916)
- ASi substructure module (CNOMO) for 8 channel module in 60 mm housing (art. no. BWU2351)
- Memory Plug, memory capacity 32 kByte (art. no. BW3241)
- Universal protection cap ASi-5/ASi-3 for M12 sockets, IP67 (art. no. BW4056)
- Passive Distributor ASi to 1 x M12 cable socket, angled, 5 poles, depth 19 mm, IP67 (art. no. BWU3185)
- Passive Distributor ASi to 1 x M12 cable socket, straight, 5 poles, depth 19 mm, IP67 (art. no. BWU3247)
- Memory plug cover (art. no. BW3155)
- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)