

ASi Module for controlling 230 V shutter

2 ASi AB Addresses

ASi Specifications 2.1 / 3



Article no. BW2114: ASi Module for controlling 230 V shutter, supplied by ASi

The ASi module to control shutters meets the requirements of the ASi Specifications 2.1/3.0. It is used to control 230 V shutters with 4-conductor or 5-conductor connections. The two inputs can be used to provide the switch position to the control-

ler. Motors that turn off automatically when reaching the end-position have to be used.

On the board there are two 2 ASi modules, so that two shutters can be controlled. Both addresses also have an addressing socket.

| | |
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| Connections | |
| Connection of 230 V supply of the shutter motors and switch | cage clamp terminals |
| ASi connection | Piercing technology (passive distributor), cage clamp terminals |
| Length of connector cable | I/O: max. 15 m ¹ |
| ASi | |
| ASi profile | S-7.A.E |
| Specification | AB address 1: 4 inputs, 2 outputs + AB address 2: 4 inputs, 2 outputs |
| Required Master profile | ≥M3 |
| ASi specification | 2.1/3.0 |
| Operating voltage | 26,5 ... 31,6V _{DC} |
| Quiescent current (inputs = 0, outputs = 0) | ≤ 30 mA |
| Max. current consumption | 130 mA |
| Input | |
| Number | each with 2 inputs for connecting external switches, 2 inputs are used internally per ASi participant |
| Switch current supply | out of ASi |
| Wiring of the inputs | switch contacts of the shutter switch |
| Voltage range | 18 ... 30V _{DC} |
| Switching current of inputs | 4 mA |
| Output | |
| Outputs | each with 2 relay outputs for connecting the shutter drives with 4- or 5-conductors per ASi participant |
| Load capacity | 230V _{AC} , 4 A each output |
| Relay control | out of ASi |
| Displays | |
| LED green (Pwr) | LED on: voltage at the ASi clamps LED flashing: voltage at the ASi clamps, but ASi participant on addr. 0 (default settings) |
| LED red (Fault) | LED on: ASi participant is not in the cyclic data exchange (communication error) |
| 2 x LEDs green (state: I3, I4) | LED on: switch closed |

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| Environment | |
| Applied standards | EN 61 000-6-2 EN 61 000-6-4 EN 60529 |
| Operating altitude | max. 2000 m |
| Operating temperature | -25°C ... +60°C |
| Storage temperature | -40°C ... +70°C |
| Protection category | IP54 |
| Housing | plastic |
| Dimensions (W / H/ D in mm) | 90 / 160 / 55 |

¹ Loop resistance $\leq 150 \Omega$

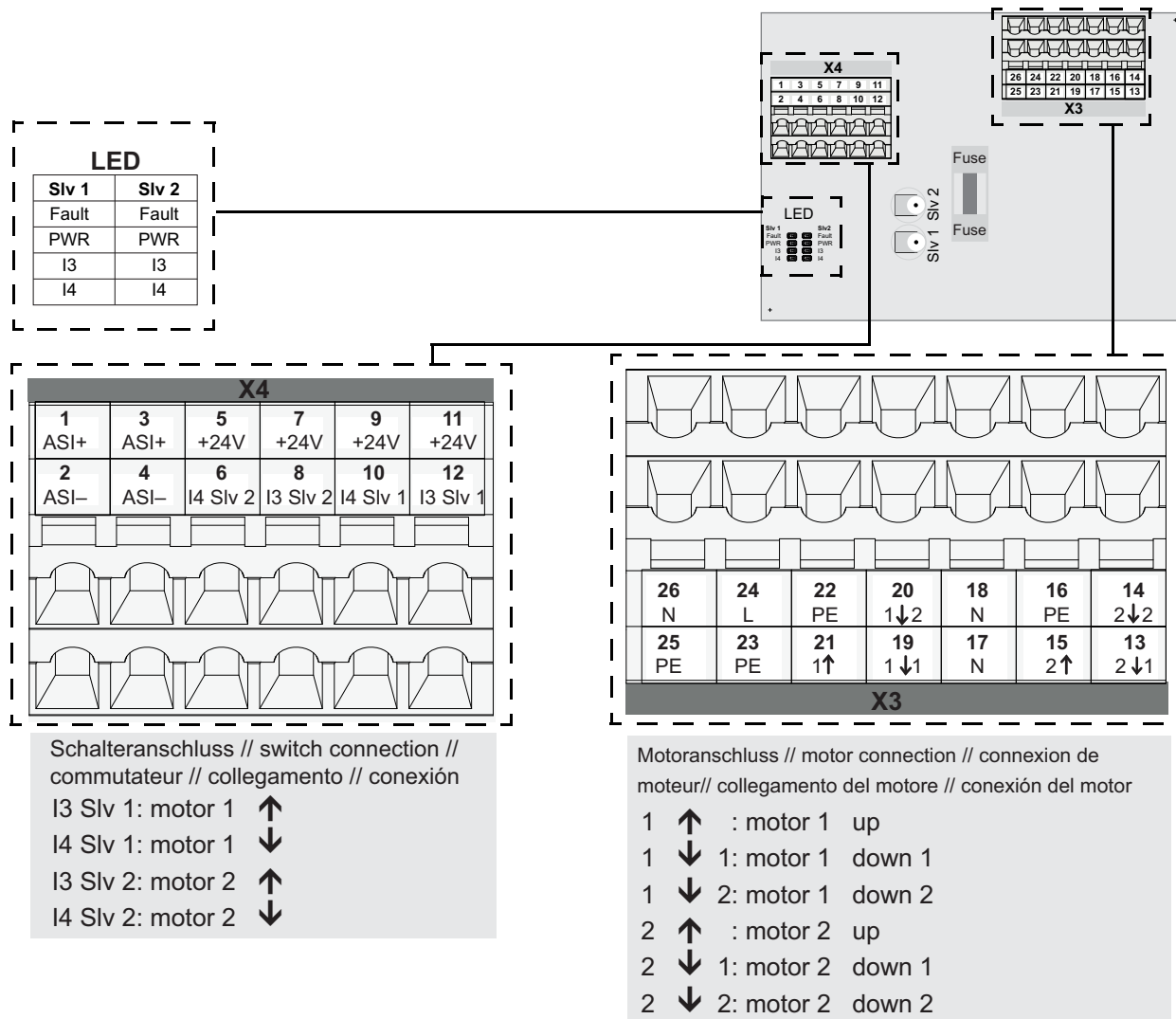
Programming:

- preset address 0, changeable via busmaster-programming devices

| Bit setting | | | |
|--------------------|-----------|-------------------------------|----------------------------|
| D3 | D2 | D1 | D0 |
| I4 | I3 | input internal (I2) | input internal (I1) |
| switch down | switch up | end position from 1 detection | trip recognition |
| O4 | O3 | O2 | O1 |
| – | – | motor up | motor down |

| ASi parameter | | | |
|----------------------|-----------|-----------|-----------|
| P3 | P2 | P1 | P0 |
| not used | not used | not used | not used |

Connections:



Notice!

When connecting 4-wire blind drives, lowering the blind requires that the contact 1(↓)2 (and 2(↓)2 for the second drive) be connected!

| Double-deck terminal block, 2 x 4/5/6/7 poles (pitch 5 mm) | |
|--|---|
| General | |
| Nominal cross section | 2.5 mm ² |
| Conductor cross section | |
| Conductor cross section solid | 0.8 ... 2.5 mm ² |
| Conductor cross section flexible | 0.8 ... 2.5 mm ² |
| Conductor cross section flexible, with ferrule | without plastic sleeve: 0.25 ... 2.5 mm ² with plastic sleeve: 0.25 ... 1.5 mm ² |
| 2 conductors with same cross section, stranded, with TWIN ferrules | – |
| AWG | 28 ... 12 |
| Stripped insulation length | 6 mm |

Motor limit switch as ASi signals: (Motor 1= ASi participant 1, Motor 2= ASi participant 2)

| Position | trip to the top (output 1) | | trip to the bottom (output 0) | |
|----------|----------------------------|----------|-------------------------------|----------|
| | input D0 | input D1 | input D0 | input D1 |
| top | 0 | 0 | 0 | 1 |
| center | 1 | 1 | 1 | 1 |
| bottom 1 | 1 | 0 | 1 | 0 |
| bottom 2 | 0 | 0 | 0 | 0 |

Scope of delivery:

- ASi passive distributor to round cable (BW3186) or (BW2890)

Accessories:

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