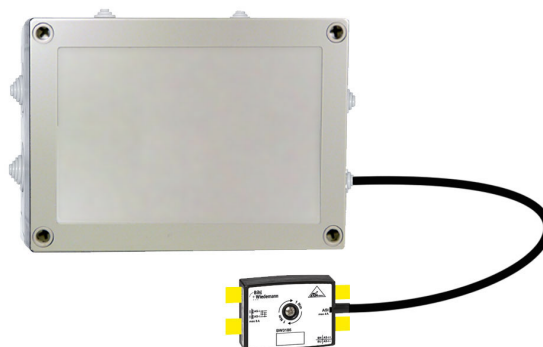


## ASi Module for controlling 230 V shutter

2 ASi AB addresses

ASi Specifications 2.1 / 3



### Article no. BW3944: 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. 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 controller.

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 modules also have an addressing socket.

<b>Article no.</b>	<b>BW3944</b>
<b>Connections</b>	
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 <sup>1</sup>
<b>ASi</b>	
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 <sub>DC</sub>
Quiescent current (inputs = 0, outputs = 0)	≤ 30 mA
Max. current consumption	130 mA
<b>Input</b>	
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 <sub>DC</sub>
Switching current of inputs	4 mA
<b>Output</b>	
Outputs	each with 2 relay outputs for connecting the shutter drives with 4- or 5-conductors per ASi participant
Load capacity	230V <sub>AC</sub> , 4 A each output
Relay control	out of ASi
<b>Displays</b>	
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

<b>Article no.</b>	<b>BW3944</b>
<b>Environment</b>	
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)	180 / 130 / 75

<sup>1</sup> Loop resistance  $\leq 150 \Omega$

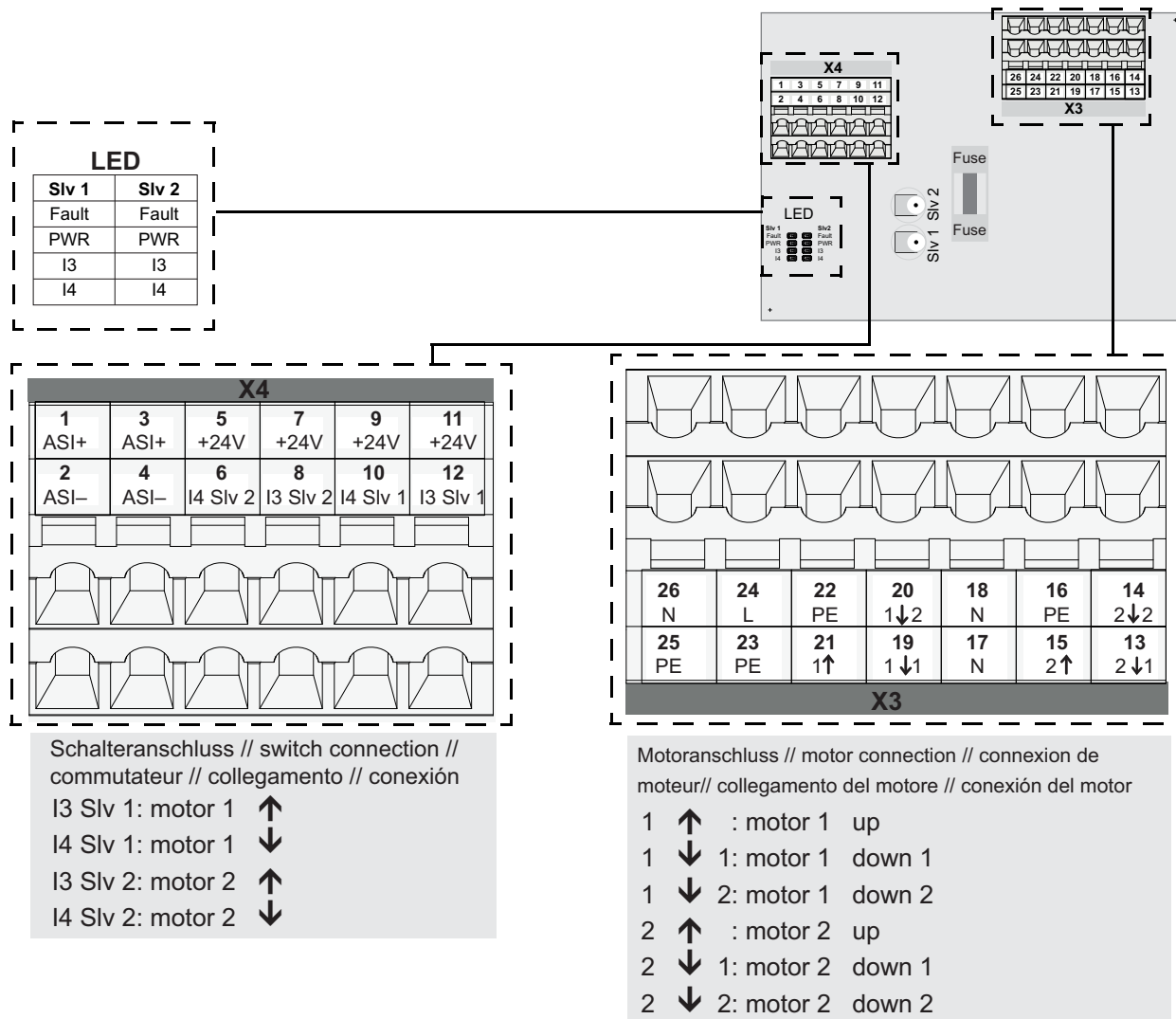
### Programming:

- preset address 0, changeable via busmaster-programming devices

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

<b>ASi parameter</b>			
<b>P0</b>	<b>P1</b>	<b>P2</b>	<b>P3</b>
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)	
<b>General</b>	
Nominal cross section	2.5 mm <sup>2</sup>
<b>Conductor cross section</b>	
Conductor cross section solid	0.8 ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.8 ... 2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule	without plastic sleeve: 0.25 ... 2.5 mm <sup>2</sup> with plastic sleeve: 0.25 ... 1.5 mm <sup>2</sup>
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)

**Accessories:**

- External fastening tabs for housing (BW3285)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)