

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.

Article no.	BW3944
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⁾
Cable length of the passive distributor	0.19 m ⁽²⁾
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

ASi Module for controlling 230 V shutters

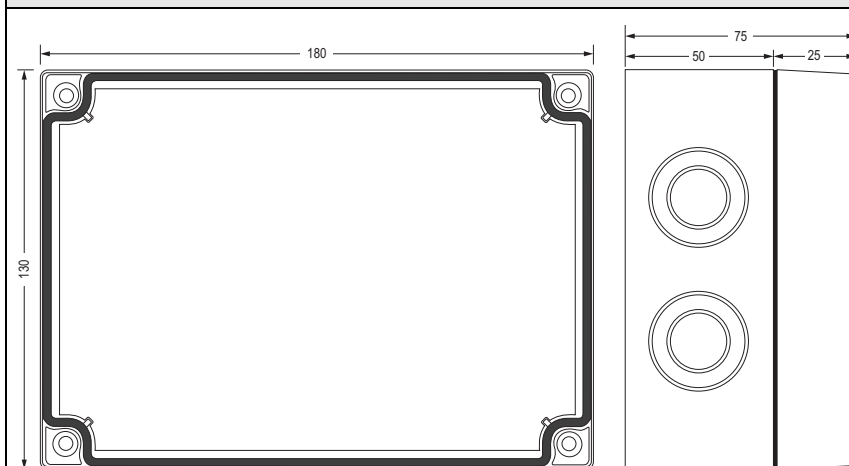
Article no.	BW3944
Environment	
Applied standards	EN 61 000-6-2 EN 61 000-6-4 EN 60529
Operating altitude	max. 2000 m
Operating temperature	-25°C ... +60°C
Storage temperature	-40°C ... +70°C
Protection category	IP54
Housing	plastic
Dimensions (W / H/ D in mm)	180 / 130 / 75

(1) Loop resistance $\leq 150 \Omega$

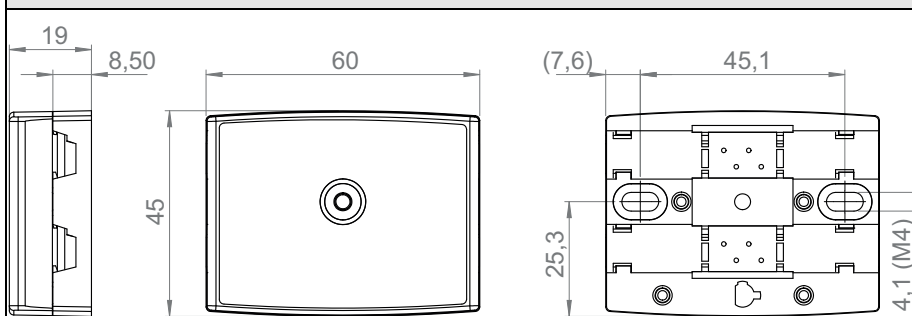
(2) ± 1 cm manufacturing

Dimensional drawings

BW3944



BW3186



Programming:

- preset address 0, changeable via busmaster-programming devices

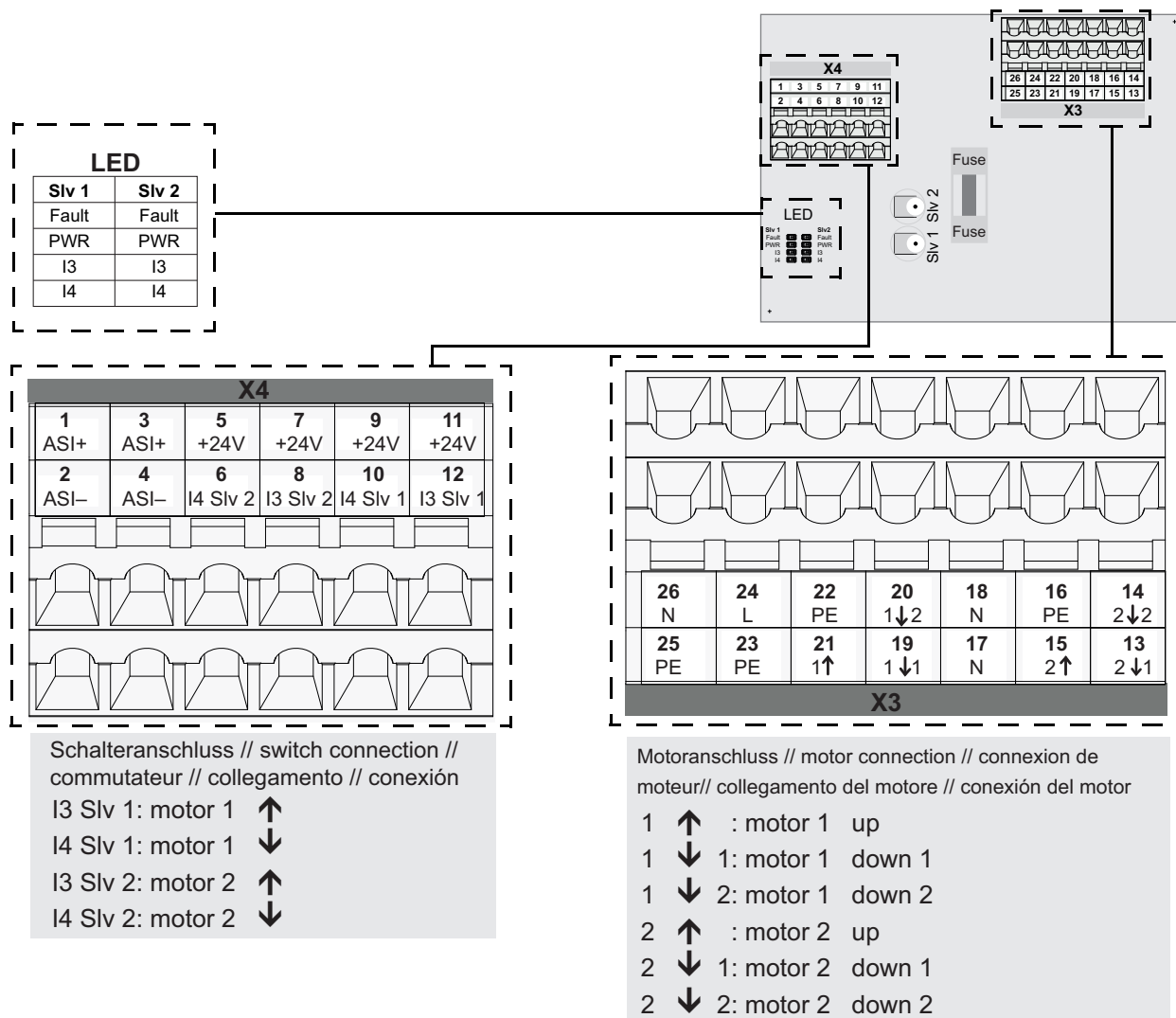
Bit setting

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

ASi parameter

P0	P1	P2	P3
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)

Accessories:

- External fastening tabs for housing (BW3285)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)