



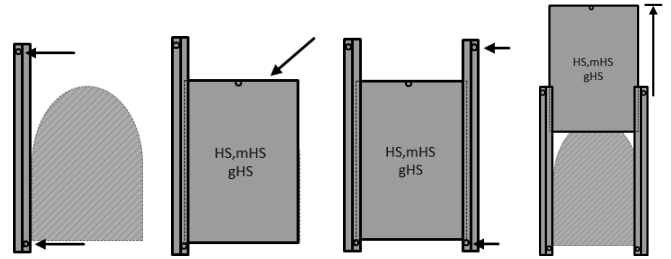
Be careful, read **carefully!** The marked positions are very important.

- Do **not bend or „straighten“ any parts** of the VSB unit! Any modification will lead to loss of guarantee!
- **Do not apply any voltage to the contacts 3 to 6**, otherwise, a defect will occur!
- Do not carry out any functional tests before mounting the doorkeeper!
- **Do not use any pesticides or similar poisons/substances on or in the devices**, as they may damage the electronic components. If you do, we will decline repairing those devices.
- **Caution!** When engaging in the mechanics of the device by hand, there is always risk of injury!

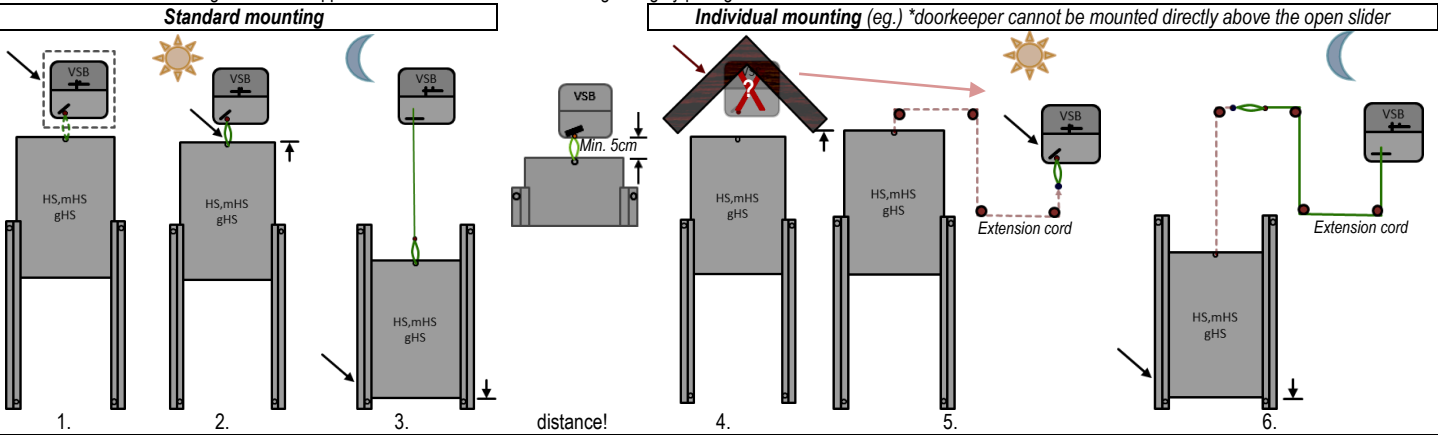
1. Fastening the slider/door: place the lower mounting screws of the rails inside. They are used as the lower limit of the slider. The slider must not have upper stop / limit !!! Greasing the rails prevents freezing.

The slider must fit loosely in the rails and must be able to move easily. Consider the fact that the background (if wood) can "work" according to weather conditions.

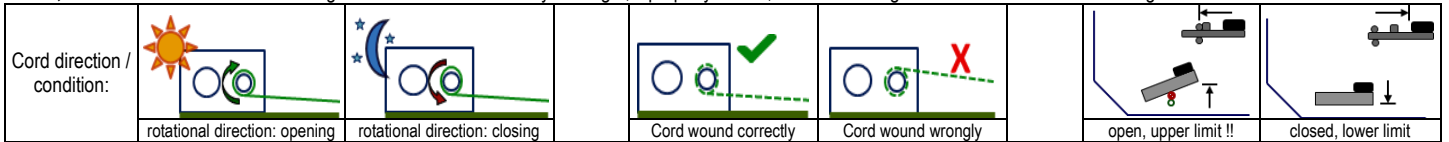
Pull the slider to the "open" position, not further than max. 60cm!



2. Fitting the VSB ... (Do not apply voltage to VSB yet) on the slider with 4 screws (* 1). Pulling cord should leave vertical as far as possible. Now hold the VSB (with the cord pulled in, delivery state!) that way that you can fix the slider to the loop of the VSB ... (* 2), if necessary use a key ring, wire or similar material. Install the VSB at this position. Distance of the lower edge of the VSB <-> Top edge of the opened slider at minimum 5cm! This defines the upper limit of the slider, the open position. If the VSB cannot be fixed directly above the slider (* 4), you have to bridge the distance between the slider and the loop of the VSB (cord pulled in) with an extension cord and, if necessary, pulleys, see "Mounting examples" ... (eg * 5, * 6). There is no upper stop !!! The VSB detects the lower limit itself, by placing the slider on the ground. The lower limit defines itself - so if the weight of the slider gets lighter than approx. 200g (* 3) this defines the lower limit. Animals which stay below the slider during closing will not be injured because the device will stop automatically. If the obstacle is removed (animal), it will proceed closing. If the slider is blocked during opening or there is a load greater than 3.5-5 kg, the motor will be switched off within seconds. After this blocking has been removed, the motor is switched back on again within approx. 30 seconds. Do not use blocking as "normal" upper limit !! Make sure that there is no grinding by pulling the cord!



- power supply **ST** – only to supply VSB... or ZS-D! Not splash-proof! Do not open! Do not repair! ST can get hot! Do not cover the device!
- **ST, ZS-D and BS-D:** internal mounting! ZS and BS are absolutely dust tight, if properly closed, also the cable glands! Otherwise defect and no guarantee!



3. Electrical connection. Only connect after attaching the slider! The colored labeling on the connections have to be used.

VSB: 6 ... 12 V DC customer specific voltage / power supply: negative: contact 1A or 1B plus: contact 2A (6V) or 2B (12V) not 1B! In the case of customer-specific power supply (eg. car or solar battery), the wire must be fused with max. 1Ampere !!!

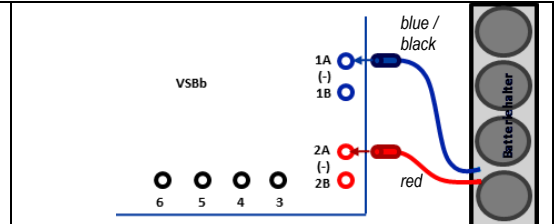
For installation **inside**, see **ASb**.

VSBb: Connect plug-in sleeves of battery holder onto pins in VSBb

| | | |
|-----------------------|---|-------------------|
| Battery holder | | VSBb |
| blue oder black (-) | > | 1A |
| red (+) | > | 2A NOT 1B! |

Batteries 4x Mignon-Alkaline (LR6), 1,5V each, ...always plug in at last, after connection !!! (danger of short circuit); For installation **inside**, see **ASb**.

[power supply can be connected additionally blue or black (-) to 1B; red (+) to 2B! then batteries will only work if power supply fails.]

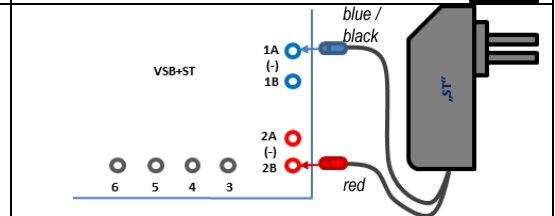


ST: plug-in power supply. Put plug-in sleeves of ST onto pins of VSB:

| | | |
|---------------------|---|-------------------|
| Power supply | | VSB |
| blue oder black (-) | > | 1A |
| red (+) | > | 2B NOT 1B! |

...after that: plug in ST in 220V power plug.

[battery holder can be connected additionally... blue or black (-) to 1B; red (+) to 2A! ...batteries inside the VSB+ST will only work if ST fails.]



ZS-D: digital timer with 12VDC. Connect with three-wire cable with Electronic Doorkeeper.

| | | |
|----------------|---|-------------------|
| ZS-D | | VSB |
| - 1 - blue (-) | > | 1A |
| - 2 - red (+) | > | 2B NOT 1B! |
| - 3 - yellow | > | 3 |

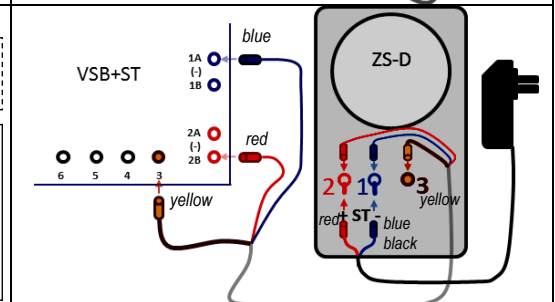
...after that, connect with 12VDC, eg. **ST**

| | | |
|---------------------|---|-------------|
| Power supply | | ZS-D |
| blue oder black (-) | > | - 1 - |
| red (+) | > | - 2 - |

>> **VSB is supplied with power by the ZS-D timer...!** <<

Buffering of the ZS-D is made by 2x AA-batteries, which should be exchanged after 6 years.

Cover for batteries at the backside of the timer module.

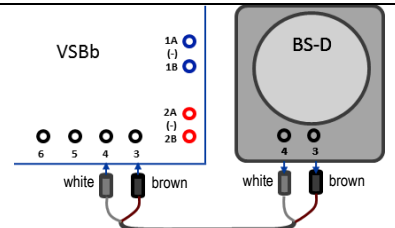


BS-D: battery-timer. Connect with 2-wire connection cable with VSB(b).

| | | |
|-------------|---|---------------|
| <u>BS-D</u> | | <u>VSB(b)</u> |
| - 3 - | > | - 3 - |
| - 4 - | > | - 4 - |

If a crossed-out battery symbol appears inside the display, open the cover from the backside of the timer (remove it by loosening the two screws and exchange the batteries with new 2x AA Mignon Alkaline-Batteries.

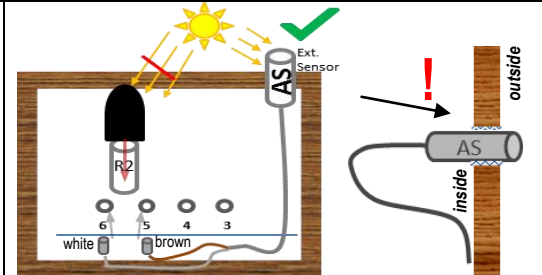
Only use Alkaline-type batteries and if possible only good brands.



ASb: at VSB-inside mounting > connect external Sensor ASb inside the VSB,

| | | |
|-----------|---|------------|
| <u>AS</u> | | <u>VSB</u> |
| Brown | > | - 5 - |
| white | > | - 6 - |

Leave sensitivity in the default setting (arrow pointing to the right) and, if desired or necessary, move in small steps to the desired setting, see section 5.



Plug black cap over internal Sensor R2,

to prevent the VSB from opening, if it is bright inside the chicken coop. Otherwise both sensors would interfere with one another.

4. function control, completely darken the VSB... or the external sensor, or close by using the timer, or connect contacts 3 and 4 with screwdriver, so that the slider is closed until it reaches the ground. If bright again, or after removing the short out of 3 and 4, it starts to open after 10 seconds. During and after closing do not move or hold anything inside the Doorkeeper! Always test after mounting or changing the setting !

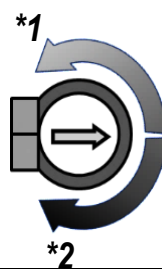
5. change sensitivity of the sensor. (Sensitivity depends on local conditions.)

Dial knob (above contacts 5 and 6: arrow direction to the right = middle position turning in direction *1 means „closing earlier“ + opening later turning in direction *2 means „closing later“ + opening earlier

Protect the Doorkeeper or the ASb from secondary light sources !

Make sure that the Doorkeeper closes at full moon (and snow) ! If it closes still too late in Pos. *1, the light sensor R2 or ASb can be slightly darkened by a shrinking tube or similar, or turn cover with silver foil in lower direction.

In Pos. (*2) it is closed at the latest time during dusk.



The most sensitive setting (clockwise to the right, up to stop of Pos. *2) may in some cases close "too late" during dusk, or does not close at all. (Reason: backyard lights, factory nearby,...).

Otherwise, the setting at Pos. *1 can close much too early.

Please slowly approach these settings and test the factory setting beforehand. Try in small steps and try again from a short distance! Always have a look at the closing by dusk.

The range Min.-Max. affects about 15 - 20 min. of twilight.

6. Control with timer BS-D or ZS-D

| | | |
|---|---|--|
| Programming button: must always be pressed at first to make settings; then a „P“ appears inside the display | Set the full hours, current time | Set the full minutes, current time |
| segment-button: flashing segment is moved one step by pressing the button, keep pressed = select several segments | confirm: the status of all flashing segments is changed: dark > clear, clear > dark each dark segments stands for 15 Minutes closed | All segments are cleared, not the current day-time |

- press repeatedly, until „P“ appears in the display, below the hour digits.
- with and set the current day-time, [hour], [minute]
- Standard closing period set by AXT-electronic: from 10 pm – 8 am
- Example: Set the Standard-closing period, after all segments are cleared (so no closing period is set at starting this):
 - with (step-by-step) move cursor up to 1 segment before 22. Only the segment before 22 is flashing.
 - Press and keep pressing!... stop pressing the button one Segment before 8. All segments from 22 on are flashing now.
 - Press to save the flashing segments, change their setting from clear to black.
 - The long segment below the 8 represents a closing time from 8 am – 8:15 am. If opening exactly from 8 am, this segment must not be black.
- With all segments can be cleared together, not the actual day-time.
- Each segment can be reached and flashed with , and the status (dark, clear) can be changed by pressing .

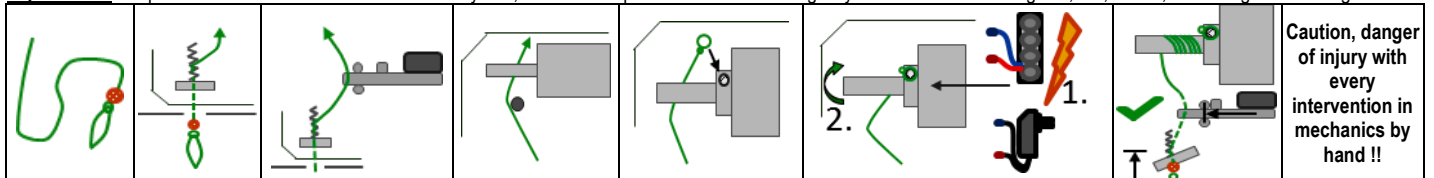
With factory setting the Doorkeeper opens at 8 pm (if it is bright outside) and closes if it gets dark, but at the latest at 22 pm. > No permanent correction of the closing time is required.

If it should be controlled by timer only, contacts 5 and 6 are permanently bridged by the cable wire (delivered with the timer).

It can also be closed by switching between the contacts 3 and 4; similar function like timer. If switch then is not opened manually, the doorkeeper stays closed! For timer: internal mounting or shadowed external mounting. No direct sunlight.

7. Alternative solution (Timer). Providing the plug-in power supply with plug-in-socket-timer. Setting (Current -on-) eg. from 8 am up to 12 pm. Closing before dusk is not possible ! The timer must not switch off power before it gets dark (current -out-). The Doorkeeper already must have closed at dawn! The Doorkeeper needs electricity to close! These timers are usually not protected from dust, spiders or similar.

8. pull cord. It is possible that the cord will tear after a few years, or it can be spooled around the wrong way. > New: braided fishing line, ø 0,40 mm, max. weight: min. 40kg

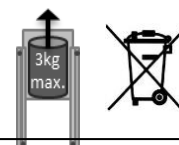


Exchange: remove the cord (if wound up the wrong direction: loosen the little screw on the motor shaft and manually roll it out), Replace the cord - see cord guide; when winding up, slightly brake and guide the cord

9. Maintenance information. Pull cord must not be oiled or greased. Gearbox is maintenance-free! No oil, no fat!

Technical data:

| | |
|--------------------|---|
| Operating voltage: | : 6...12 Volt DC voltage (VSB ... is to be used only for vertical slides on poultry houses!) |
| Slider weight | : minimum 200g (with less than 200g no closure possible!) max. 3kg, with pulley about 5kg |
| stroke | : maximal 60cm, automatic adjustment, see mounting, point 2, page 1 |
| delay (light) | : For opening approx. 8 seconds and for closing approx. 1 second, thus insensitive to lightning |
| batteries | : 4 LR 6, Mignon (AA), only Alkaline-types and good brands (no zinc-carbon batteries!) |



Before return, please refer to "Service / Help" on the website!
If possible, provide pictures of the system / mounting!

We usually do repairs within 2 - 4 days after arrival (excluding transport time).

Marked position can be purchased and added later. Since in the month of June dawn is already opened at about 4 o'clock, and it is not closed until 22:15 o'clock, this means danger (marten, fox ...)! With ZS-D or BS-D can be opened later and closed earlier (opening And closing by time, or opening by time and closing at dusk).

Repairs: If a repair is necessary, please clean the equipment before sending it to us ! If mites, other small animals, and contamination are present, we reserve the right not to carry out the repair or to calculate a surcharge. If possible, also send all existing accessories, except the flap / slider / rails.

Disclaimer: Electronic devices may fail for a variety of reasons. The use of our equipment does not release you, of regularly monitoring the welfare of the animals and the functioning of the equipment. We assume no liability for damage and consequential damage resulting from incorrect assembly / operation or defects on the devices.