

## 5 Structure and Function of the Device

### 5.1 Functional Description

The device consists of a plastic base housing in which a limit switch in the form of a roller button is installed. The power supply is provided by four AA batteries (not included), which are inserted into an integrated battery compartment in the housing.

For proper operation, the device must be mounted to a box door. The roller lever is positioned against the box door or its closing mechanism and detects when it is open, signaling this via the built-in red LED indicators in the base housing. When the box door is properly closed, the LED indicators remain inactive.

This function enables persons inside the stable building to determine from a distance if a box door has not been properly closed.

The device does not have a separate on/off switch; the power supply is activated by inserting the batteries.

### 5.2 Scope of Delivery

The delivery package of the device includes the following components:

- Horse Stable Detection Box
- Mounting Hardware

#### Pos. Description

- 1 Base housing with mounted magnet (on the back)
- 2 LED indicators – red (on both sides)
- 3 Roller mechanism (mounted to the limit switch in the housing)
- 4 Mounting magnet (only in Version 2)
- 5 Clamping band  $\varnothing 30 - 54$  mm (only in Version 1)
- 6 Battery compartment (not shown in the illustration – permanently built into the housing)

### 6 Installation of the Device

The device can be used for two different types of box doors and must be installed accordingly to ensure proper operation.

- Version 1: Sliding Door (2024-01-00-01)
- Version 2: Swing Door (2024-01-00-02)

Installation instructions for the respective versions can be found in the following chapters.

#### NOTE

After successful and proper installation of the device, it should be checked after approximately 1 week to ensure that the device is still securely mounted and that the roller lever is in the correct position. If necessary, the roller lever may need to be adjusted again.

### 6.1 Preparation for Installation / Inserting Batteries

For a proper installation and subsequent adjustment of the roller lever, batteries (not included) must first be inserted into the device's battery compartment.

#### Procedure

1. Open the device's cover by unscrewing the mounting screws on both sides (Pos. 1).
2. Insert four AA batteries into the battery compartment in the correct orientation of the battery poles.

CAUTION! Incorrectly inserted batteries can damage the device. Be sure to observe the correct arrangement of the battery poles as depicted on the housing.

3. Close the device's cover and secure it by tightening the mounting screws on both sides (Pos. 1).

CAUTION! Over-tightening the screws may result in breakage of the plastic housing and stripping of the mounting holes. Tighten the screws only until the cover is securely fastened and no longer wobbles.

4. Check the function of the device by manually operating the roller lever.  
    | With proper operation, the LED indicators should switch "ON" or "OFF" depending on the position of the roller lever.

## 6.2 Installation on a Sliding Door

6. Slightly loosen the adjustment screw (Pos. 2) with a 3 mm Allen key. Rotate the roller lever so that it is contacted by the box mechanism before the door locks.

Incorrectly adjusted:

The LED light is off, even though the bolt of the box mechanism has not yet engaged and the door is not locked.

Incorrectly adjusted:

The LED light is on, even though the bolt of the box mechanism is engaged and the door is locked.

Correctly adjusted:

The LED light is on, and the bolt of the box mechanism is about to engage.

7. Check whether the LED turns off when the bolt of the box mechanism is engaged. Test the function of the device by repeatedly opening and closing the box door.

LED Function:

LED on \ Box door not locked      LED off \ Box door locked

CAUTION! If the roller lever is not correctly adjusted, there is a risk that the LED is off while the box door is not properly locked. Check the function several times by opening and closing the box door after adjustment.

## 6.3 Installation on a Swing Door

1. Ensure that the batteries are already inserted in the device (see "Preparation for Installation / Inserting Batteries"), as this is the only way to guarantee the proper adjustment of the roller lever and thus the function of the device.
2. The installation of the device on a swing door is implemented using the mounting magnet (Pos. 1). Ensure that the mounting surface (adhesive surface) on the door frame is sufficiently large, magnetic, and free from contamination. If the adhesive surface is too small for the magnet, there is a risk that the magnet will not exert its full holding force and the device may become detached.
3. For additional support of the holding force, the back is equipped with an area covered with double-sided adhesive tape, which you can remove the protective film from if needed for use.

Box door opening to the left

Box door opening to the right

- Depending on the opening direction of the box door, you can install the device in different ways as shown above. The installation method must be carried out in accordance with the depicted illustration based on the opening direction of the box door.

CAUTION! Ensure that the device is mounted at a height such that a horse does not have the opportunity to nibble or bite it with its mouth when looking over the door.

- Slightly loosen the adjustment screw (Pos. 2) with a 3 mm Allen key. Rotate the roller lever so that when the door is closed, the LED turns off, and when the door is slightly opened, the LED turns on.

Incorrectly adjusted:

The LED light is on, even though the door is closed and locked.

Incorrectly adjusted:

The LED light is off, even though the door is open and not locked.

Correctly adjusted:

The LED light is off, and the door is closed and locked.

- Check whether the LED turns on when the door is slightly opened (see image above → door slightly open). If this is the case, the roller lever is correctly adjusted.

LED Function:

LED on \ Box door not closed and locked      LED off \ Box door closed and locked

CAUTION! If the roller lever is not correctly adjusted, there is a risk that the LED is off while the box door is not properly locked. Check the function several times by opening and closing the box door after adjustment.

## 7 Maintenance, Servicing and Troubleshooting

### 7.1 Maintenance and Servicing

To ensure the proper functionality of the device, it may be necessary—due to its use in the stable environment—to clean the device at regular intervals.

#### Procedure

- Never clean the device with liquids such as water.
- Clean the device with a soft cloth or a conventional handheld brush.
- Remove the batteries if the device is not used for an extended period.
- Store the device in a dry place.

### 7.2 Troubleshooting

The following overview provides information on malfunctions, their possible causes, and remedies for resolution:

Malfunction	Possible Cause	Troubleshooting
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No display of the LED indicators

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| <ul style="list-style-type: none"><li>• Roller lever not properly adjusted to the door's closing mechanism.</li><li>• Mounting of the device on the door has loosened and the contact of the roller lever with the door is no longer present.</li></ul> | <ul style="list-style-type: none"><li>• Readjust and set the roller lever.</li><li>• Check the mounting, tighten if necessary, and adjust the</li></ul> |
|---|---|

roller lever.

- Batteries are depleted.      • Replace the batteries.
- Internal component defective.      • Contact the manufacturer.

Device does not adhere to the door frame (Version 2)

- Magnetic adhesion surface too small.      • Select a different mounting location with an appropriate adhesion surface.
- If necessary, additionally secure with double-sided adhesive tape.
- Adhesion surface contaminated.      • Clean the adhesion surface.

## 8 Disposal of the Device and Batteries

Before disposing of the device, remove the batteries (not included) from the battery compartment and dispose of them separately.

- The device itself is subject to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). Do not dispose of this device with regular household waste; instead, dispose of it through an officially approved disposal facility. Observe the currently applicable regulations. If necessary, consult your local authority or disposal facility.

- Batteries/accumulators must not be disposed of with household waste. They may contain toxic heavy metals and are subject to hazardous waste disposal. The chemical symbols for the heavy metals are as follows: Cd = Cadmium, Hg = Mercury, Pb = Lead. Defective or used batteries/accumulators must be recycled in accordance with Directive 2006/66/EC and its amendments. Return batteries/accumulators via the provided collection facilities.

### NOTE

Information on the applicable regulations and local disposal arrangements can be obtained from the relevant authorities.