KAISER NIENHAUS

Favorit Zip - BL

Item no. 112035

12V screen drive with electronic limit switching

Installation and Operating Instructions

1 Technical Data

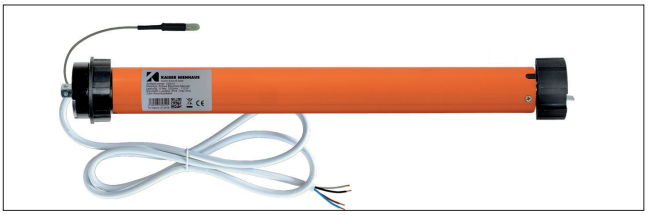

Fig. 1: Roller shutter drive Favorit Zip - BL

Item number:	112035
Rated torque:	20Nm
Rated speed:	15 rpm
Power supply:	12V (DC)
Operating time:	5 min.
Cores/cross-section:	4 x 0.824mm ^{2}
Length of connecting cable:	3.5m
Overrun:	3 degrees
Protection class acc. to VDE700:	IP44
Motor length:	502mm

*For all work, please observe the safety instructions and the notes under Safety Instructions & Electrical Connection; in particular the notes on the protection and routing of the connecting cable if the rooms are not “dry rooms”.

Routing the connecting cable

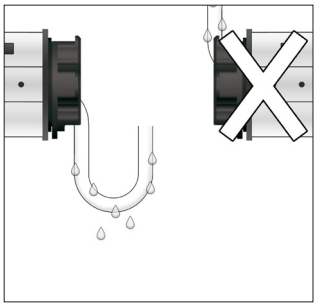

Fig. 2: Routing the connecting cable

Never route the connecting cable vertically upwards, otherwise water can run along the cable into the motor head and destroy it. Route the cable downwards in a loop, at the lowest point of which the water can collect and drip off.

1.1 Electrical Connection

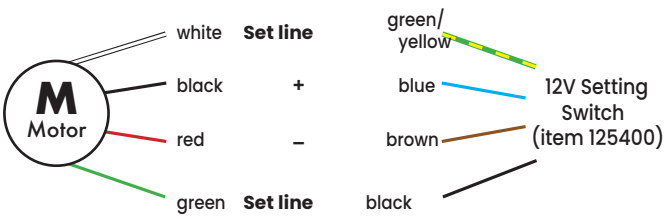

Fig. 3 Connection Favorit Zip - BL

Important! The green and white connecting wires of the drive are only used to set the end positions with the setting switch and must then be insulated separately from each other with a suitable terminal.

1.2 Field of Application

The Favorit Zip - BL drive is ideal for use in vertical textile curtains such as window awnings or zip screens.

The obstacle detection of the drive was developed especially for textile screens: the screen must run onto an obstacle twice at the same point before travel in the “down” direction is interrupted. More information on how obstacle detection works can be found in section **3** “Obstacle detection”.

The end positions are set either with the 12V setting switch (item no. 125400), with the button on the motor head or automatically via the fixed stops of the system.

As it is a 12V drive, it can also be controlled via a battery-backed flush-mounted control (e.g. for escape and rescue routes) or with the external battery module (item no. 100980) in combination with a solar panel.

2 Setting the End Positions

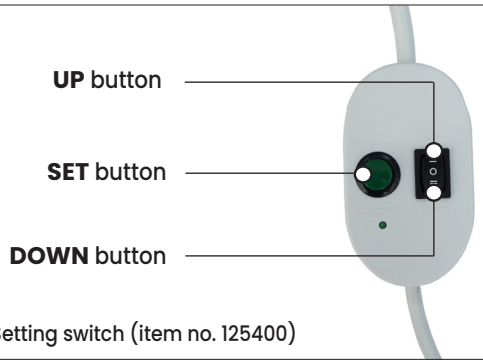

Fig. 4: Setting switch (item no. 125400)

2.1 SET Button on the Drive

The Favorit Zip - BL drive has a set button on an additional lead at the motor head. The end positions are set with this button as described under **2.2**. The **SET** button on the motor head can be used instead of the **SET** button on the setting switch. The direction buttons of the local control are used to move up and down during the setting procedure.

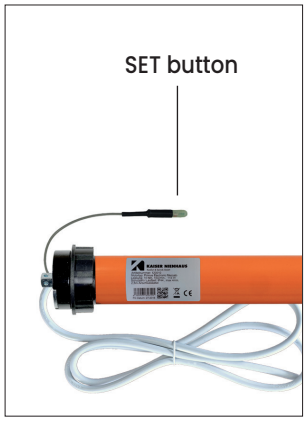

Fig. 5 Set button

2.2 Setting the End Positions with the Setting Switch

With the Favorit Zip - BL drive, the end positions can easily be set using the setting switch (item no. 125400). Proceed as follows:

1. Start the motor in the "up" direction. Once the drive is running, additionally press and hold the **SET** button. As soon as the **SET** button is released, the drive sets its new upper end position there. This can be overwritten again and again by pressing the **SET** button again (with the "up" command switched on).

Note: We recommend releasing the **SET** *button a short distance before reaching the fixed upper stop. You can then carefully approach the desired end position by pressing the* **SET** *button again.*

2. As soon as the drive has saved the desired upper end position, you can switch off the "up" command.

3. Then start the motor in the "down" direction. Once the drive is running, press and hold the **SET** button. Release it at the desired lower end position. The end position can be overwritten again and again by pressing the **SET** button again (with the "down" command switched on). Observe the note on end position setting above if necessary.

4. As soon as the drive has saved the desired lower end position, you can switch off the "down" command.

2.3 Automatic End Position Setting (Part 1)

To set the end positions automatically, the system must have a fixed upper stop. If end positions have already been stored, they must first be deleted. Proceed as follows:

1. First press and hold the **SET** button and then additionally press the **UP** button (approx. 5 seconds).

The drive confirms successful deletion of the previous end positions by jogging twice.

2.3 Automatic End Position Setting (Part 2)

After the end positions have been deleted as described, you can let the drive learn the new end positions automatically. Proceed as follows:

Important! Obstacle detection must be activated!

1. Press and hold the **UP** button until the drive has completed its learning run in both directions.

The upper end position is determined by means of the fixed upper stop.

The lower end position is detected by a slight counter-pressure of the textile screen as soon as the bottom bar touches the lower stop of the system.

After the lower end position has been found, the drive, depending on the situation, runs once more (at full speed) in the "up" direction and then stops in the upper end position. As soon as the drive no longer reverses automatically after reaching an end position, both end positions are saved.

Note: If the fabric is longer than the intended travel, we recommend setting the end positions manually!

3 Obstacle Detection

The Primus Zip - BL drive has special obstacle detection for textile screens. If the bottom bar runs onto an obstacle, the drive stops and reverses a short distance. The drive then automatically moves the textile screen "down" again. If an obstacle is still detected at the same point, the drive reverses once more to remove the load from the obstacle. To activate/deactivate obstacle detection, proceed as follows:

Switch the drive quickly and without pause three times alternately "up" and "down" (UP -> DOWN -> UP -> DOWN -> UP -> DOWN). Keep the third and last "down" command switched on until the drive confirms successful activation/deactivation as follows:

Obstacle detection activated: One jog

Obstacle detection deactivated: Two jogs