

# Awning/Blind Motors Intelligent Controls

## Smart 35 SE 10 – 13 Motors: Setting the Limit Switches

Smart SE type tubular motors are equipped with a **switch/programming button**, an **electronic limit switch**, **frost and obstacle detection**, and **reverse winding function**.<sup>1</sup>

Use a **rigid push-up spring device** during installation! (DS 282 A or B)

These motors have a **5-core** cable. In addition to the usual brown, black, green/yellow, and blue, there is also 1 **white** wire, which is **only** used when setting the limit switches with the programming **cable**. Otherwise, it **does not need to be connected!**



**programming button / green button**

### Automatic Limit Switch Setting

- Connect the motor to the **programming cable** or directly **to the mains with a switch!**
- Press and hold the **"up"** direction switch.
- The motor will raise the blind to the upper stop, and **after tensioning**, it will automatically **start to move downwards**. The rigid **push-up spring device** will **tension** the blind at the lower limit switch, and then the motor will **retract** the entire blind to the upper limit switch.

**The limit switch setting is now complete**

### Manual Limit Switch Setting

The **programming / green button** can be found on the cable and also on the motor head unit (**transparent**).

- After connecting, give an **"up" direction command** to the motor, then **press and hold the programming button**. The motor keeps working as long as the button is held down. **The point where the button is released is going to be the upper limit switch.**
- Following this, give the motor a **"down" direction command** and **keep the button held down**. The motor keeps working as long as the button is held down. **The point where the button is released is going to be the lower limit switch.**

**The limit switch setting is now complete**

If you wish to **modify** the limit switches, **both the upper and lower ones need to be reprogrammed!**

## Reverse Winding Function Activation

- Move the blind to the **upper** limit switch.
- Set the switch to the **stop** position, then press the **up button / switch and, after a 0.5-second delay, return it to the stop position.**
- Perform this action **3 times.**

**Within 0.5 seconds after** completing the third combination, start moving the blind to the **lower** limit switch **using the "down" button.**

As soon as the blind reaches the lower limit switch:

Set the switch to the **stop** position, then press **the down button / switch and, after a 0.5-second delay, return it to the stop position.**

Perform this action **3 times.**

**Reverse winding function activation complete.**

**To deactivate the reverse winding function, repeat the steps above.**

## 3 Ways to Set Extra-Sensitive Obstacle Detection

### 1. Default State

Otherwise, **in order to activate it**, proceed as follows:

**Set** the switch on the wall or programming cable **to the '0' position**, then **press and hold the program button on the motor or programming cable and give a continuous UP or DOWN command** with your switch (by holding the buttons pressed).

**After 5 seconds**, the motor will **perform a single up/down movement**. Release the button at this point.

**Obstacles are not detected within 20 cm of the upper and lower limit switches;** extra-sensitive detection is only active in the range between them.

2. **Set** the switch on the wall or programming cable **to the '0' position**, then **press and hold the program button** on the motor or programming cable and **give a continuous UP or DOWN command** with your switch (by holding the buttons pressed). **After 5 seconds**, the motor will perform a **double up/down movement**. Release the button at this point.

**Obstacles are not detected within 4 cm of the upper limit switch or within 8 cm of the lower limit switch;** extra-sensitive detection is only active in the range between them.

3. **Set** the switch on the wall or programming cable **to the '0' position**, then **press and hold the program button** on the motor or programming cable and **give a continuous UP or DOWN command** with your switch (by holding the buttons pressed). **After 5 seconds**, the motor will perform a **triple up/down movement**. Release the button at this point. **Extra-sensitive obstacle detection is inactive** across the entire height. (**Obstacle detection remains active with the reverse winding function, but only if the rigid push-up spring device tensions the blind** in the housing).

