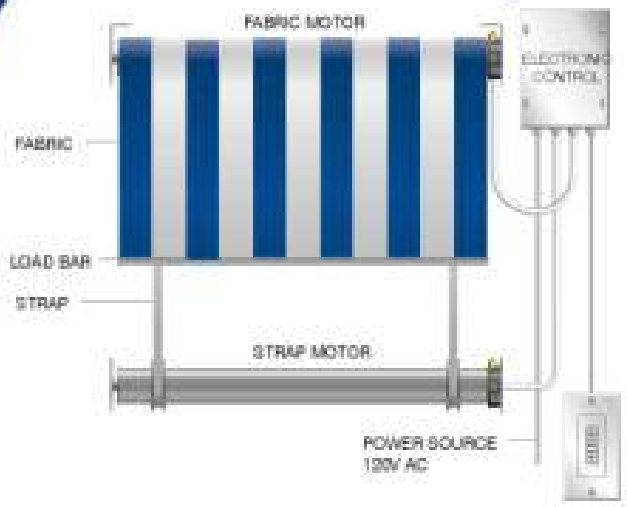
TECHNICAL NOTES BULLETIN

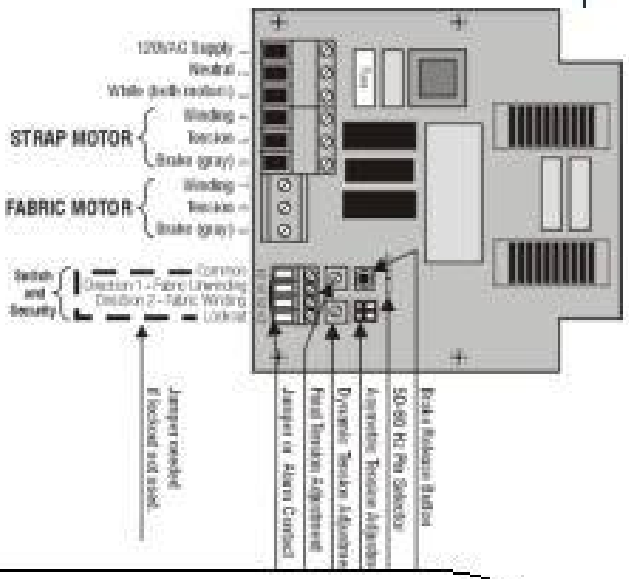
NOTEM

N° 05/001-R1

Date : 10/12/2005

Subject Somfy LT FTS V.5 Installation Bulletin





- LT FTS VERSION 5 INSTALLATION RECOMMENDATIONS :

1. Setting Procedure:

- Apply the setting procedure as mentioned in the LT FTS Installation Instructions located on the SOMFY website at: http://somfysystems.com/www/ADDITION/WEB.INSTRUCTIONS/pdf/fts.pdf

- After connecting the motors to the controller, adjust the FABRIC DYNAMIC TENSION and FINAL TENSION as follows:

A. Set both potentiometers at 3

B. Extend and retract the fabric in order to observe if there is any slack in the system (do this at least 2 times to remove the initial slack present in the system)

C. If the tension in the system is still too small then set the dynamic tension by gradually increasing the setting of the potentiometer (DYNAMIC TENSION ADJUSTMENT) until the tension in the system in visually acceptable.

D. According to the Dynamic Tension setting, set the Final Tension 2 points higher than the Dynamic Tension.

E. For optimal FTS performance (considering fabric life), it is recommended not to exceed a setting of 7 on the Final Tension, and a setting of 5 on the Dynamic Tension.

Bulletin:

Document reference:

somfy.

Subject Somfy LT FTS V.5 Installation Bulletin

NOTE:
This means that it is not recommended to set the Dynamic Tension at 8 or 9 because it doesn't allow a setting of the Final Tension to be higher by 2 points.

Be careful if setting the Final Tension to 9 because you may set a tension of 0 if you go too far since there is no mechanical stop in the potentiometer between 9 and 0.

Never leave the final and dynamic tension at 0

As a general Rule:

FINAL TENSION ADJUSTMENT = DYNAMIC TENSION ADJUSTMENT + 2

Information:

- NEW VERSION 5 PCB Delaytime: Time provided by the microcontroller before powering the braking voltage in the stator of the braking motor.
  V.4 => cable motor: 64 m sec. / fabric motor : 300 m sec.
  V.5 => cable motor: 500 m sec. / fabric motor : 1050 m sec.

- Whatever the setting of the Dynamic tension on the potentiometer, the software provides no Dynamic Tension for the first second at the very beginning of activation (we can notice the fabric sagging) and just after provides a Dynamic Tension equal to the adjustment of 9 during a few seconds in order to make up for the sag in the system before providing the set Dynamic tension. This is most important for horizontally mounted systems. This means that the structure that the FTS is mounted to must be able to support the maximum force produced by the FTS system.

- All mechanical accessories of the FTS System and the mounting method must be capable of withstanding the tension and forces exerted by the motors.

- 2 same consecutive orders from the switch (ex. Pressing UP and UP again) are taken as a STOP order

- For the 525A2 FTS motor, the entire FTS system must be able to withstand a minimum of 250 Lbs. of force. This value was obtained based on both the fabric tube and strap tube having a diameter of 2.5".

- For the 655A2 FTS motor, the entire FTS system must be able to withstand a minimum of 500 Lbs. of force. This value was based on both the fabric tube and strap tube having a diameter of 3.5".