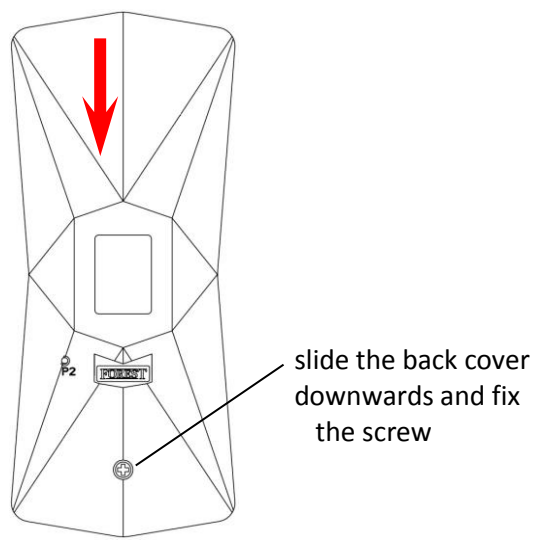
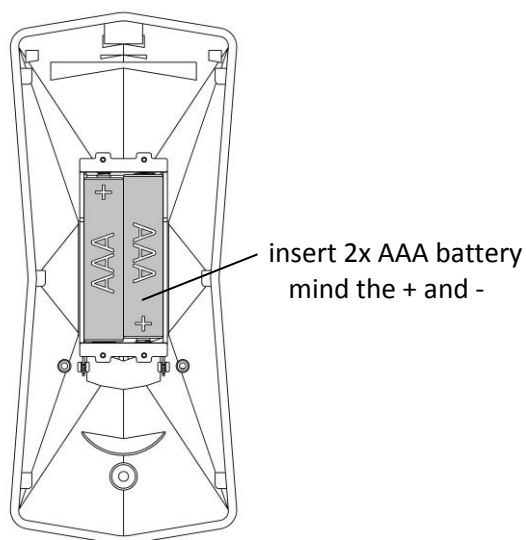
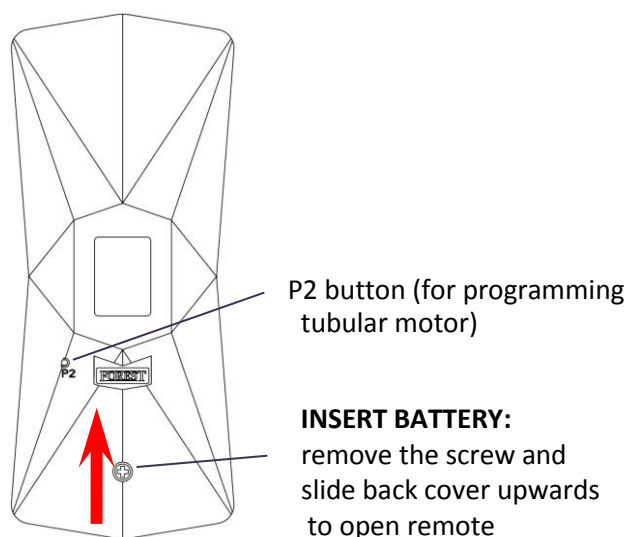
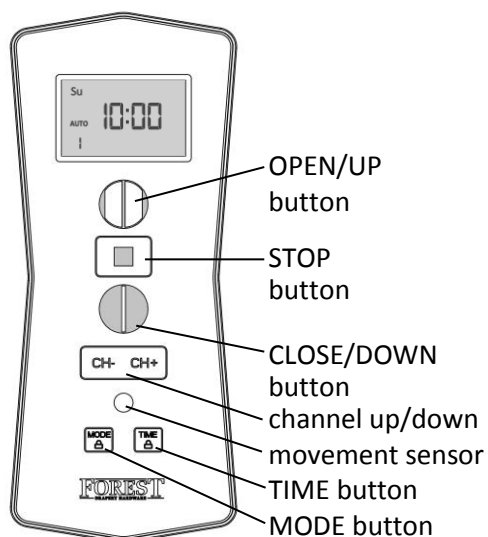


Content:

Technical specification and battery	1	Remove / turn off timing position	5
Display, unlock and mode setting	2	Programming Shuttle motor S / M / L	5
Switching between 15 and 2 channels	3	Programming Shuttle receiver	6
Set current time and day	3	Programming DS-XL LED dimmer	7
Set automatic open and close time	4	Programming external receiver	8
		Programming tubular and BS motor	9

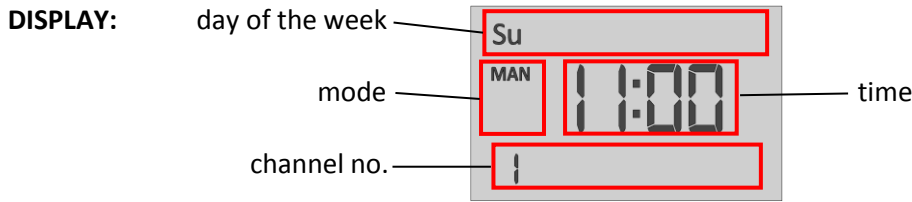
TECHNICAL SPECIFICATION:

- 2x Alkaline battery type AAA, LR03
- battery life < 3 years
- frequency 433.92MHz
- transmit power max. 10mW
- transmit range indoor max. 30mtr
- working temperature -10°C - +50°C
- each channel can control up to 20 receivers



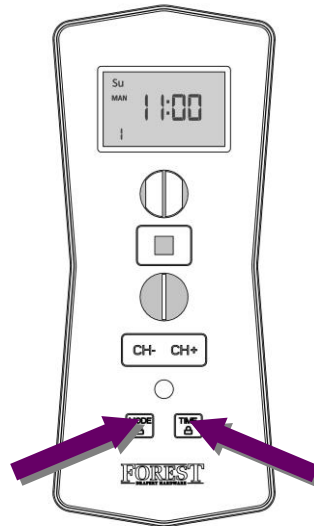
BATTERY EMPTY:

After changing the battery, programmed receivers will stay in memory of Diamond Sense remote. Please follow the local regulations for disposal of the empty battery.



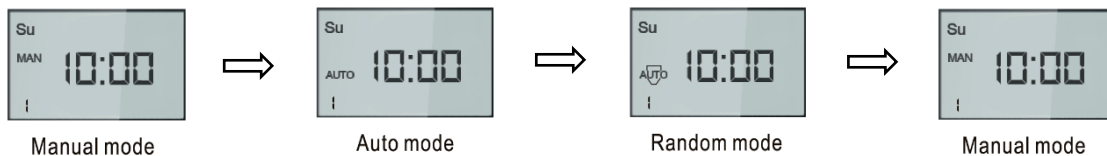
UNLOCK THE MODE AND TIME BUTTONS:

Keep both buttons MODE and TIME pressed for about 4 seconds until the display shows 'LOC'. Now you can set the mode and time.



- MODE:**
- MAN ⇌ Manual mode: automatic timer mode is off
 - AUTO ⇌ Auto mode: automatic timer mode is on
 - AUTO ⇌ Random mode: automatic timer mode is on, OPEN and CLOSE time will vary between + and – 15 minutes

To change the mode, keep 'MODE' pressed until the desired mode appears in the display:



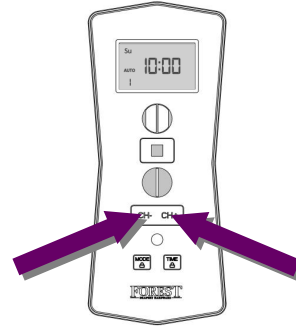
SWITCHING BETWEEN 15 AND 2 CHANNELS:

Default setting of the Diamond Sense is 15 channels. Channel 1 up to 15 can be used.

When desired, for example when you only have one or two motorized systems, you can change the setting to 2 channels:

Keep both buttons, CH- and CH+ pressed for about 8 sec until the display shows F-02.

Now the Diamond Sense is a 2-channel remote control.



To change back to a 15-channel remote control:

Keep both buttons, CH- and CH+ pressed for about 8 sec until the display shows F-15. Now the Diamond Sense is a 15-channel remote control.

SET CURRENT TIME AND DAY (when necessary, first unlock the buttons: press and hold MODE and TIME):

MODE must be 'MAN'

press TIME button once, hours start blinking

change hours by pressing OPEN or CLOSE button

press TIME button once, minutes start blinking

change minutes by pressing OPEN or CLOSE button

press TIME button once, day starts blinking

change day by pressing OPEN or CLOSE button

press STOP button to finish

SET AUTOMATIC OPEN AND CLOSE TIME (first unlock the buttons: press and hold MODE and TIME):

In total up to 9 OPEN and 9 CLOSE timing positions can be set. For example use 4 points:

Position 1: Ma-Tu-We-Th-Fr ⇒ 7:30 OPEN

Position 2: Ma-Tu-We-Th-Fr ⇒ 21:00 CLOSE

Position 3: Sa-Su ⇒ 7:00 OPEN

Position 4: Sa-Su ⇒ 20:00 CLOSE

SET TIMING POSITION 1 – OPEN:

MODE must be 'AUTO' or 'AUTO' (press and hold MODE button)

press MODE button once

select the desired channel

press TIME button once, hours start blinking

change hours by pressing OPEN or CLOSE button

press TIME button once, minutes starts blinking

change minutes by pressing OPEN or CLOSE button

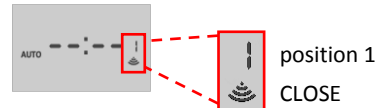
press TIME button one, day starts blinking

change day(s) by pressing OPEN or CLOSE button

press STOP button to finish

SET TIMING POSITION 1 – CLOSE:

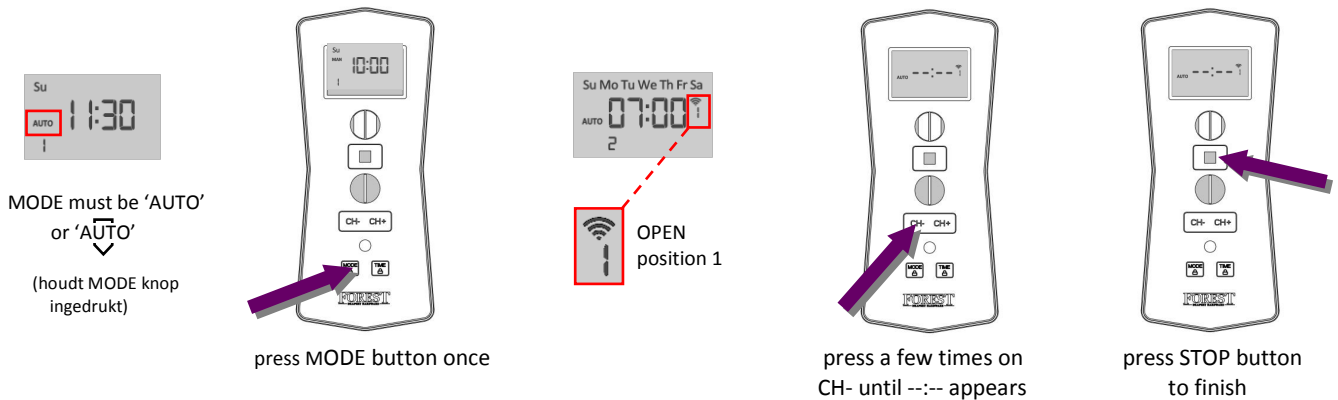
Repeat steps here above, only start by pressing MODE button twice



NEXT TIMING POINTS:

can be set in the same way, press multiple times the MODE button until desired timing position OPEN or CLOSE is reached. Maximum of 9 OPEN and 9 CLOSE positions can be set.

REMOVE / TURN OFF TIMING POSITION (example shows timing position 1 OPEN now on 07:00 CH2 → turn off)



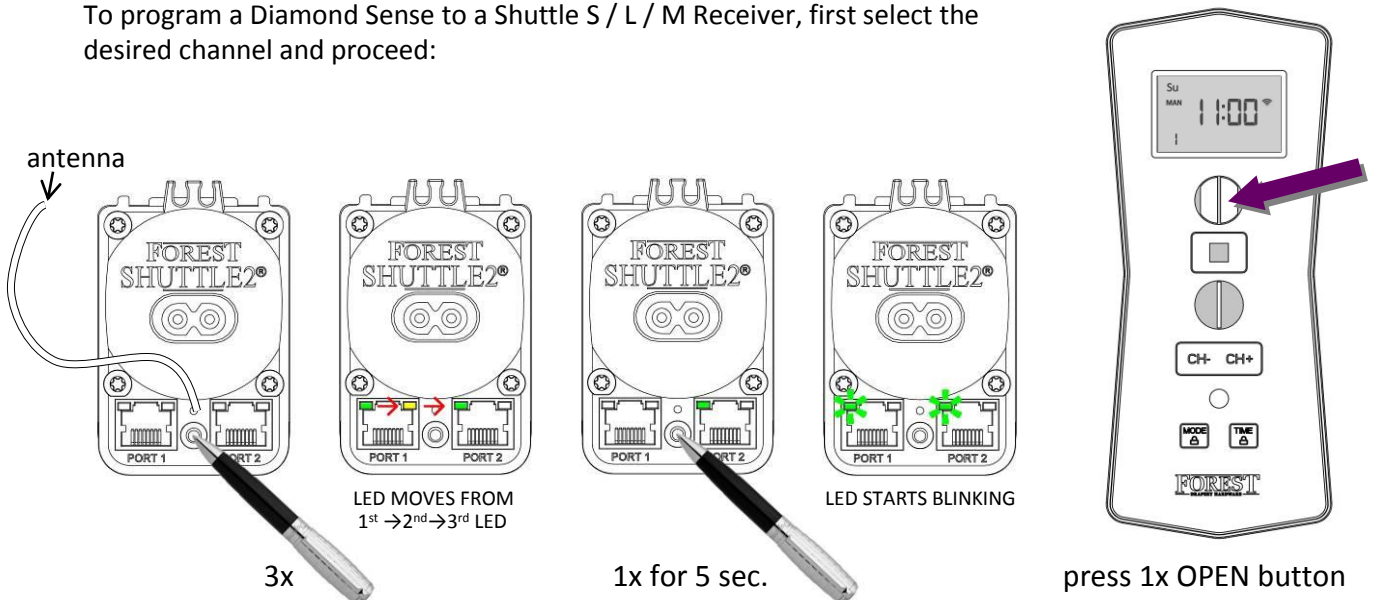
When desired, repeat this action for any other timing position.

To turn off all timers temporarily, set the remote control to mode 'MAN', see page 2.

FOREST SHUTTLE S / L / M RECEIVER PROGRAMMING

You can recognize these Shuttle motors by the white antenna cable.

To program a Diamond Sense to a Shuttle S / L / M Receiver, first select the desired channel and proceed:



Same procedure, but press CLOSE instead of OPEN, will erase the programmed channel.

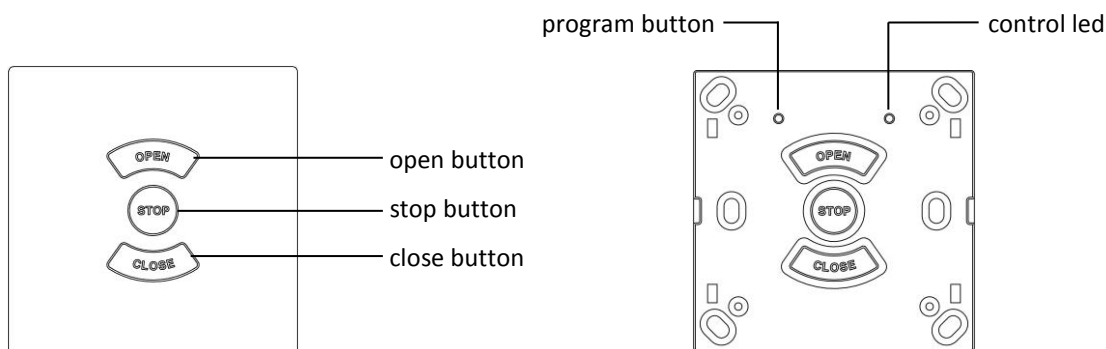


Do not mount the motor within 1 meter from other equipment and receivers. This will interfere with the receiver.

TECHNICAL SPECIFICATION:

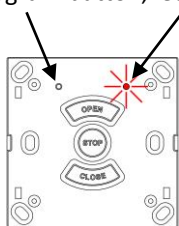
- powered by Shuttle
- cable 0,5mtr → 5201001360
- cable 3,5mtr → 5201001361

- op meerdere Shuttles parallel aan te sluiten
- working temperature 0°C - +50°C
- controlled by Forest remote control and Forest wall switch RF

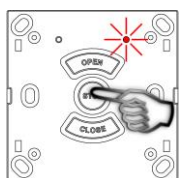


PROGRAMMING REMOTE / WALL SWITCH TO RECEIVER:

press program button, led will blink



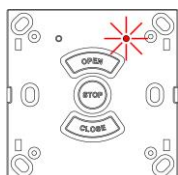
press stop button



hold the remote control within 0.5mtr from receiver and press OPEN button

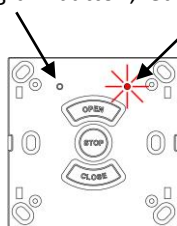


led blinks 3 times and will go off

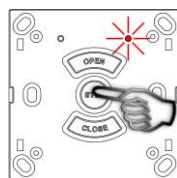


CANCEL ONE CHANNEL OF REMOTE / WALL SWITCH

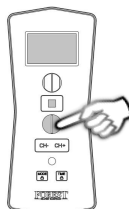
press program button, led will blink



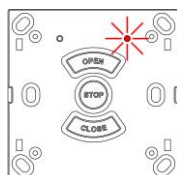
press stop button



hold the remote control within 0.5mtr from receiver and press CLOSE button

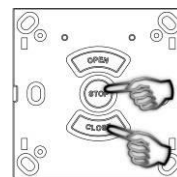


led will blink and go off

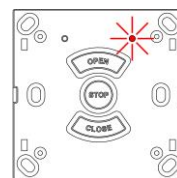


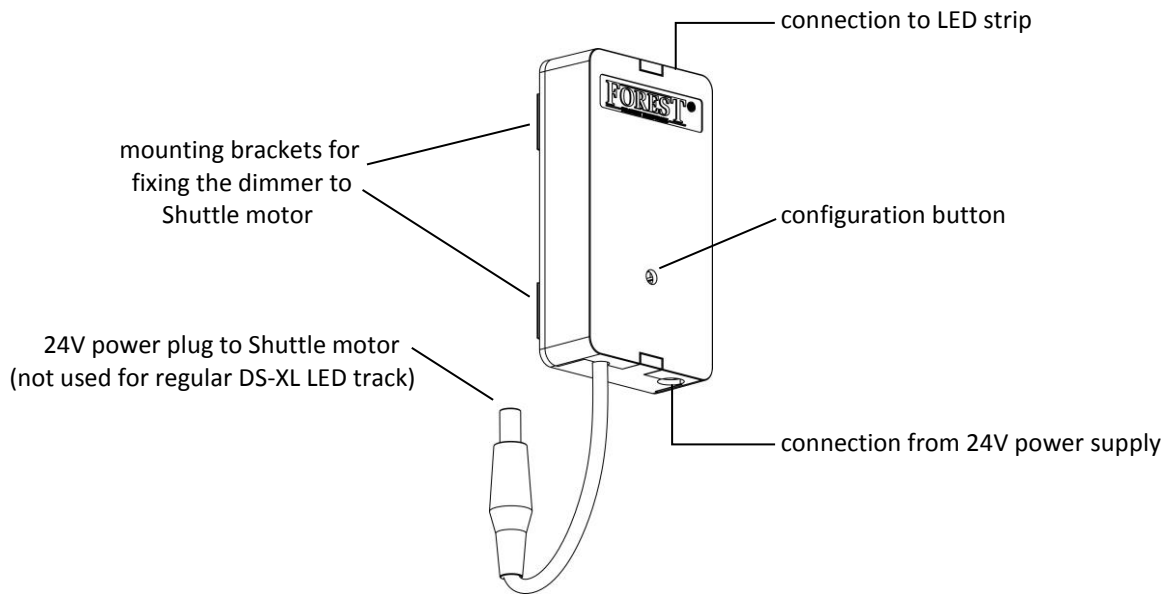
DELETE ALL PREVIOUS PROGRAMMED REMOTES / WALL SWITCHES:

press stop and close button for ~6 sec.

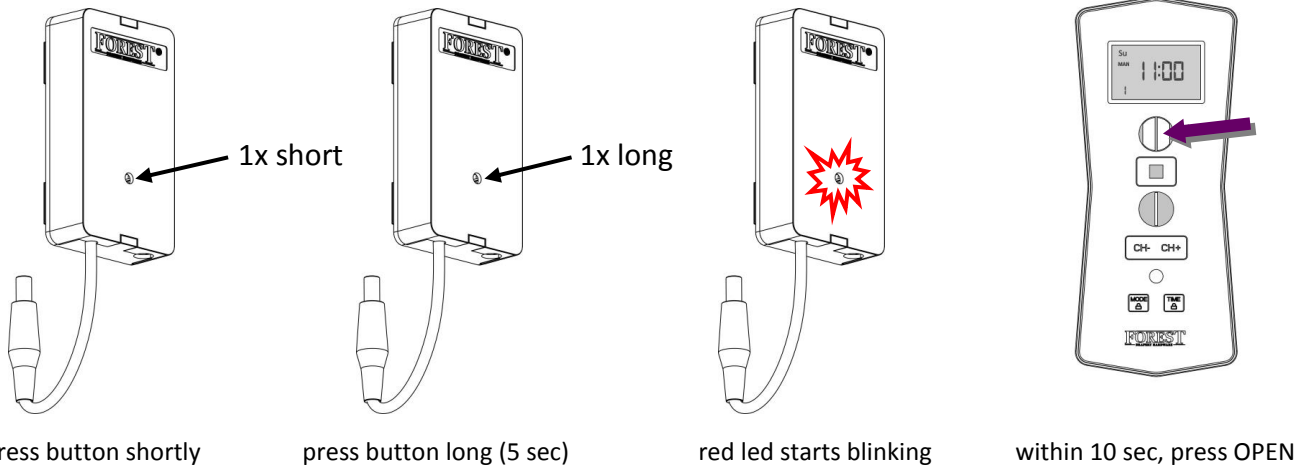


led will blink and go off





Program dimmer to a channel:



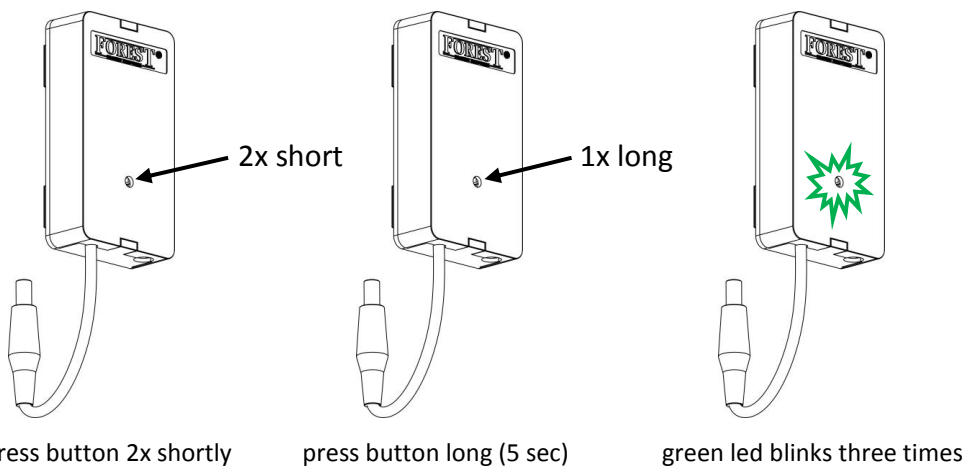
Control:

OPEN button: LED turns ON.

CLOSE button: LED turns OFF.

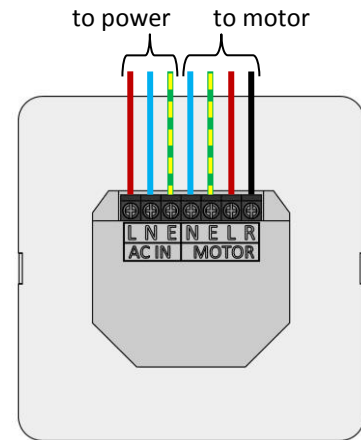
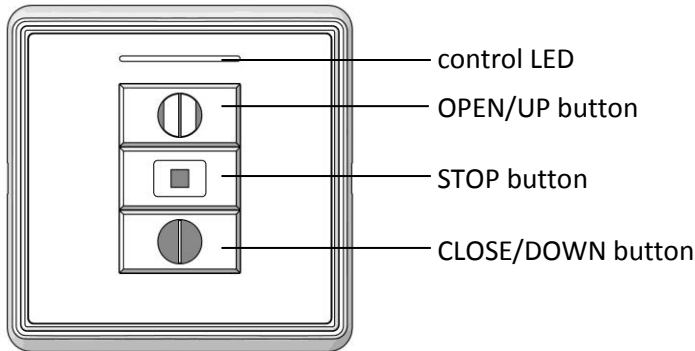
STOP button: each press will increase the brightness by 10%, until 100% is reached. Press once more and LED starts at 10% brightness.

Invert ON and OFF:



TECHNICAL SPECIFICATION FMS/BCS RECEIVER:

- power: 100 - 240Vac 50/60Hz – 500Wmax.
- controls one tubular or FMS motor. When more motors → use group relay
- can also be used as wall switch
- terminal max. 2,5mm²
- working temperature -10°C - +50°C



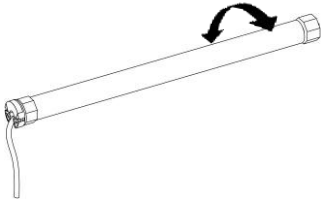
PROGRAMMING CHANNEL TO RECEIVER:	REMOVE PROGRAMMED CHANNEL:	DELETE ALL PREVIOUS PROGRAMMED CHANNELS:	CHANGE MOTOR DIRECTION
<p>keep STOP button pressed for 5 seconds until LED blinks</p> <p>5 sec</p>	<p>keep STOP button pressed for 5 seconds until LED blinks</p> <p>5 sec</p>	<p>keep STOP and CLOSE button pressed for 6 seconds</p> <p>6 sec</p>	<p>keep OPEN and CLOSE button pressed for 6 seconds</p> <p>6 sec</p>
<p>within 10 sec. select channel and press OPEN button:</p>	<p>within 10 sec. select (to be removed) channel (to be removed) and press STOP button:</p>	<p>after 5 sec. the blue LED will blink 3x to acknowledge:</p>	<p>blue LED will blink 3x to acknowledge:</p>
<p>blue LED will blink 3x to acknowledge:</p>	<p>blue LED will blink 3x to acknowledge:</p>		



Do not mount within 1 meter from other equipment and receivers. This will interfere with the receiver.

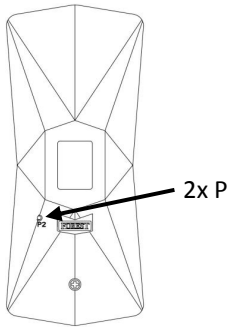
PROGRAMMING REMOTE TO TUBULAR MOTOR:

press button on motor, motor will
turn short to acknowledge

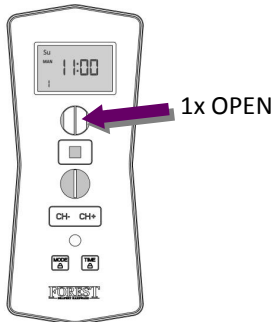


within 6 seconds:

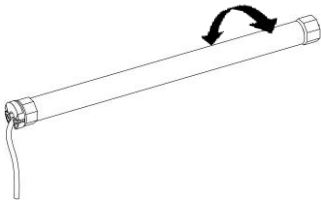
press P button two times



press OPEN button one time



motor will turn to acknowledge

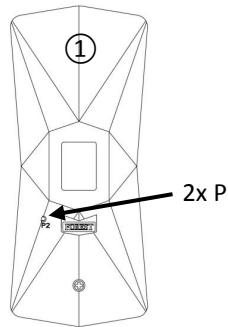


CHANGING DIRECTION OF ROTATION:

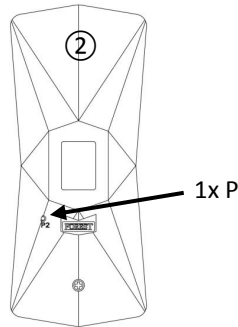
To change the direction of rotation,
keep green button on motor pressed
for 7 sec, until motor turns to
acknowledge.

ADD MORE REMOTES OR CHANNELS TO TUBULAR MOTOR

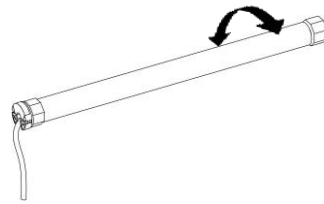
①st remote: press P button two times



②nd remote: press P button one time

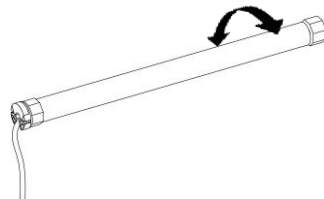


motor will turn to acknowledge



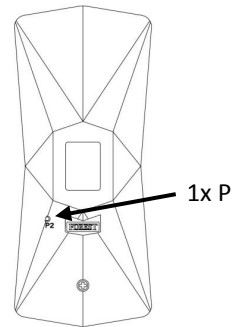
to add another channel:
1.press 2xP button of programmed channel,
2.select other channel and press P button

motor will turn to acknowledge

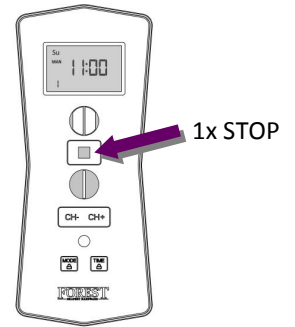


CANCEL ALL REMOTES

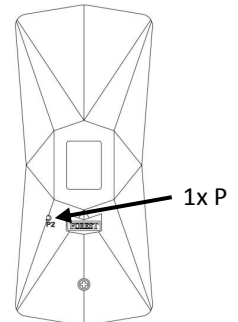
press P button one time



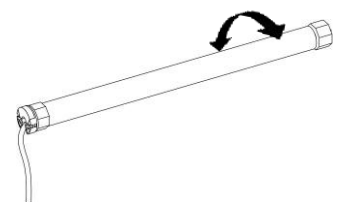
press STOP button one time



press P button one time



motor will turn to acknowledge



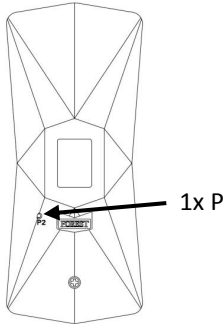
Please check the motor manual for setting the end limits

ADJUSTING UPPER AND LOWER END LIMITS:

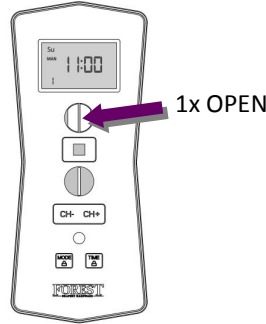


IMPORTANT: - when more motors are programmed to one channel, end limits of all motors will be adjusted
 - during programming, keep the remote within 2 mtr from the motor

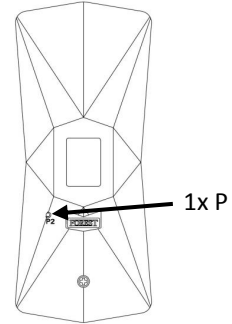
press P button one time



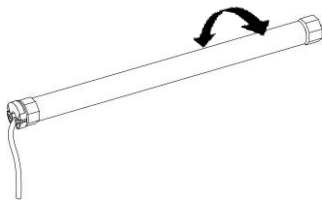
press OPEN button one time



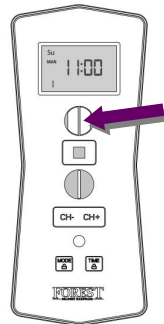
press P button one time



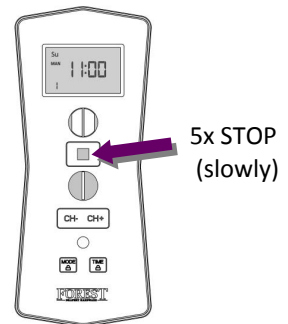
motor will turn to acknowledge



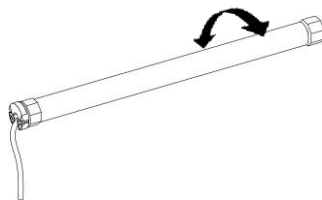
adjust to UPPER position



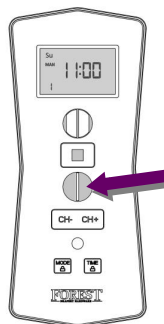
press STOP button when required height is reached. Press STOP button **5 times slowly for 1 seconds** to confirm



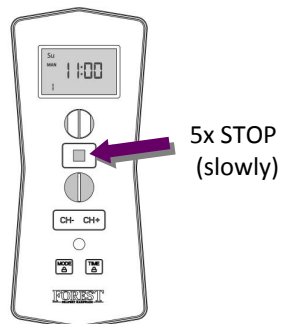
motor will turn to acknowledge



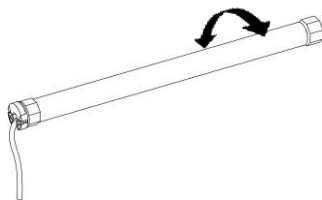
adjust to LOWER position




press STOP button when required height is reached. Press STOP button **5 times slowly for 1 seconds** to confirm



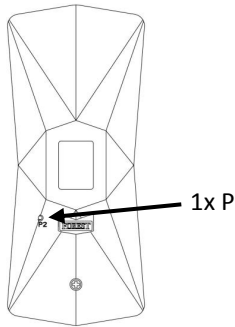
motor will turn to acknowledge, limits have been set successfully.



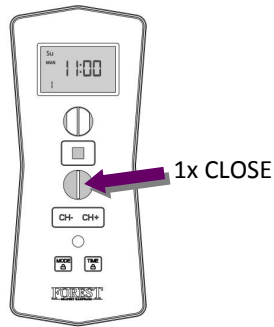
CANCELLATION OF UPPER AND LOWER END LIMITS:

 **IMPORTANT:** When cancelling end limits, the limits of all motors, programmed to selected channel, will be cancelled

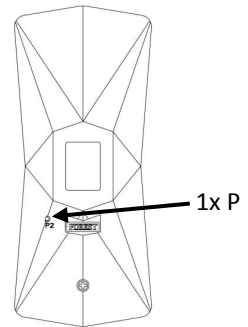
press P button one time



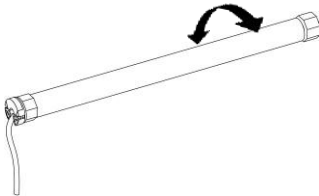
press CLOSE button one time



press P button one time



motor will turn to acknowledge



REVERSE DIRECTION SETTING:

When motor is not running, press button on motor for ~ 7 seconds, until motor turns to acknowledge.