



LINE LASERS DOT LASERS ROTARY LASERS

HOME > PLS PLS180-SYSTEM PLUMB, LEVEL, AND SQUARE LINE LASER WITH SLD LASER DETECTOR

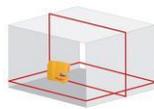
PLS PLS180-SYSTEM Plumb, Level, and Square Line Laser with SLD Laser Detector

\$ 329.00

QUANTITY

- 1 +

ADD TO CART



The PLS180 is a simple, easy solution for short and mid-range interior and exterior horizontal and vertical layout tasks. The PLS 180 has the longest fan angle-length of line in the industry. Plumb, level and square laser reference in the palm of your hand.

Fast, accurate and portable, this plumb, level, and square laser line tool will be such a time saver, your bubble vial level or rotary laser will become obsolete.

The PLS SLD Detector expands the utility of the PLS 180 to exterior use – execute short and mid-range exterior horizontal and vertical layout tasks simply and easily.

PLS180

01:00

Progress bar

Specifications:

- Power 3 AA Batteries
- 180 Degree Fan Angle Laser
- Range 100'
- Operating time 30+ Hours
- Accuracy 1/8" at 30 ft.

Includes:

- PLS SLD Laser Receiver (detector)
- Magnetic wall bracket
- Pouch
- Operating Manual
- Carrying Case

Features:

- Unique optic technology
- Self Leveling
- Internal shock frame impact protection
- Accurate to 1/4" at 100 feet
- Longest lines, vertical-horizontal
- Pulsed beams for exterior applications
- Range of 200 feet with the PLS SLD compact laser receiver

RECOMMENDED ITEMS

VIEW MORE



PLS PLS4 Horizontal, Vertical, and Plumb Line Laser

~~\$ 456.00~~ **\$ 379.00**



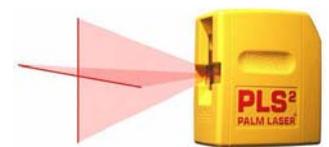
PLS PLS360E 360 Degree Horizontal Interior/Exterior Laser Level

\$ 333.67



PLS HVL100 360 Degree, Horizontal, & Vertical Self-Leveling Line Laser

\$ 699.00



PLS PLS2 Horizontal and Vertical Interior Line Laser

\$ 183.00

Fenetex Installation Instructions

Before you begin installation read these instructions and watch our videos on You tube. Search “Fenetex Installation”. Note: Fenetex does not supply mounting hardware or tools. In addition to common construction and installation tools have on hand the following:

- Self-leveling laser (pulse laser w/ daylight receiver is best) to level brackets
- Quality 6' bubble level to check that tracks are plumb
- Drill with 3/16" drill bit for rivets
- Hand-held pop-rivet setting tool for 3/16" rivets
- Chop saw with aluminum cutting blade for track trimming
- 300 grit sandpaper or fine emery cloth for deburring

1. When arriving on jobsite, set up your laser level and shoot a level line across the opening at a convenient working height and mark these lines on the columns. These will be your reference lines for leveling the hood.
2. Attach left and right end brackets to hood back. Attach hood back to flanges then secure hood back to back of flange with 2 supplied pop-rivets on each bracket **Note:** *Painted covers are installed on end brackets only if hoods are ordered. Note: Painted covers should be removed from trapped openings.*
3. Install assembled hood back at opening at the ordered height on one side by securing through the first bracket flange (dimensions are from top of hood or bracket). Hold the opposite side up with a helper. Measure from the laser cut notch of the first bracket to the laser reference line on the first column, note this dimension and now working with the unfastened second bracket secure it to the same dimension as the first by using the laser reference line on the second column. **Your brackets are now level. Do not use a bubble level.** Secure brackets to structure through the flanges on the bracket. Secure hood back securely to structure every 24". Determine electric routing for motor end position as ordered. **NOTE:** *your screen was ordered for a left or right motor. Attached to the drive or your motor is a clutch that detects obstacles and stops motor rotation. If your motor was ordered incorrectly for the opening or field conditions require you to change the motor position you MUST take out the motor and reverse the direction of the clutch. See YouTube video “Somfy ABS Clutch Direction Change”.*
4. Install reel assembly to mounted hood back or brackets, screen should roll off the top back of the reel to align with where the side tracks will be mounted. Snap motor into spring bracket and slide idler into idler bracket. The outer reel and stub axles have been factory positioned but may need to be adjusted if field conditions require. Confirm the outer reel is centered between the tracks and the spring idler is adjusted so the idler shaft spring is compressed and idler shaft is pushing into the idler bracket. Correct any issues before proceeding. If the reel is not centered one side of the screen will lift faster than the other.
5. Connect power to motor. Only power **ONE** screen at a time. **READ** section about motor and remote programming instructions before doing anything more. Add a loop to wire in the housing so that rain water does not drain into motor. **Note:** *Your motor has been tested by Fenetex prior to shipping. We test torque, limits and ABS function then factory reset motor.*

6. Operate screen with motor, screen drops into top of installed track in later steps. Use remote to adjust motor direction and lower screen to floor set lower limit about 1" from the floor, then set upper limit. **NOTE:** *If the weight bar touches the floor during programming the ABS clutch will think it has hit an obstacle and will stop the motor- this is not a lower limit setting. You must press the up key before the motor will go down, then set the lower limit 1" above the floor. You will adjust the limits once the side tracks are installed.*
7. For Hurricane screens, install side tracks per Product Approval or NOA engineering documents for your local building code. For Dual Screens Install hurricane screen or roll shutter first then install insect screen. A dual system may be installed with a double bracket or two independent brackets depending on how screens were ordered. Tracks snap together for fastener free attachment.
8. Install tracks to structure, tracks must be plumb and aligned to ¼" below the notch in the end bracket, trim track bottom if need. **Note:** *Tracks are mated pairs and are not interchangeable.*
9. For an adjustable track, remove inner channel and mount outer channel to structure, tracks must be plumb. Install inner track with included self-drilling screws using the depth guide as a gauge. **Notes:** *1) Tracks are mated pairs and not interchangeable, 2) Track aligns ¼" below the notch inside of bracket - this allows weight bar to retract inside hood, 3) If trimming track for fit, trim bottom so as to maintain screen entry at top of track, 4) Take care to install self-drilling screws straight. You can optionally drill and tap these holes or drill a pilot hole for self-drilling screw.*
10. Use motor to place screen at upper limit, gently set screen into the tracks on the left and right sides. This should not be forced. If you are forcing the screen, something is wrong in steps 1-9, step back and find the problem before continuing.
11. Check screen tension at gauged depth setting, screen should move freely without wrinkles. If you have diagonal wrinkles, your reel is not level, this cannot be adjusted out, you must relevel the brackets. If required, adjust the self-drilling screws to increase or decrease screen tension. The correct adjustment is enough tension so the screen is flat but not so much that the screen binds. For Hurricane screens the tracks can be adjusted by easing off the mounting fasteners and positioning as required for smooth operation. For Vinyl screens pay attention to the temperature. Vinyl shrinks in cold weather so the tension may need to be eased to its maximum to maintain operation.
12. The weight bar is designed to retract into the hood completely, set you upper limit so the top of the weight bar guide is aligned with the top of the inner track. The screen will look best if the weight bar tensions the screen in the down position. An easy way to do this is to put a pencil under each side of the screen and set your lower limits to the pencil - when the pencil is removed the screen will be properly tensioned.
13. Finish programming motor by setting in user mode. Cycle the screen several times to confirm operation. Install hood cover and secure hood cover with screw or rivet to bottom flange of bracket.



FENETEX
RETRACTABLE SCREENS

Somfy RTS MAESTRIA™ Programming Instructions

The following instructions work for the Somfy Telis and DecoFlex RTS motors and remotes. The MY and STOP buttons perform the same functions. On multi-channel remotes, first select channel to program.

Note: If multiple motors, power and program ONLY one motor at a time. If programming multiple motors and channels, you must select a new channel for each motor you want to control independently.

Initial Programming:

1. Press UP and DOWN buttons at the same time, the motor will jog back and forth to confirm power on.
2. Screen should roll up to the back of the Reel. To change direction, press the MY button and hold till jog.
3. Lower Limit Step 1: Press the DOWN button until the Screen is in the lowest desired position. The UP button may be used to reach the desired position.
4. Lower Limit Step 2: Press the MY and UP buttons at the same time. The screen will travel up by itself. Press the MY button to stop it at the desired Up position. You may use the Down button to reach the desired position.
5. Upper Limit: Press the MY and DOWN buttons at the same time and the screen will travel to the already set lower position and stop on its own.
6. To confirm upper limit press and hold UP button and it will travel to the upper position and stop on its own.
7. If these things happened, you can now press and hold the MY button and the motor will jog back and forth to confirm memory.
8. The Program button is a pinhole on the back of the Telis, and on the front of the DecoFlex. Insert a paperclip into the pinhole, press and hold until the motor jogs to confirm programming.

Resetting a motor can be accomplished by performing the Dual Power Cut:

1. Remove plug from power for 2 seconds.
2. Attach plug to power for 10 seconds.
3. Remove plug from power for 2 seconds.
4. Attach plug to power, motor will begin to move. When motor stops moving, press and hold the Programming Button (pinhole) until motor jogs **twice**. Do not release button until jogs are complete, or you must restart the reset from the beginning.

Note: You cannot reset the motor unless the programming cycle is complete. If you are having problems programming the motor, it is likely that you have made a mistake in the above steps and you will have to call Somfy for assistance in resetting the motor.

Obstacle Detection:

The Somfy RTS MAESTRIA™ motors come equipped with an obstacle detection system with three levels of sensitivity. Motors are factory programmed at ESD Level 1 sensitivity.

To change the settings, follow these steps:

NOTES:

- **The MY and STOP buttons perform the same function.**
- **A jog is a brief and fluent up and down movement. Levels 0 and 2 have the same jog.**
- **Your motor will default to ESD Level 1 upon arrival. Use the UP and DOWN keys to toggle between levels.**

Step 1: Starting from the screen in halfway position, press the MY and UP buttons briefly, and again MY and UP for two seconds. The screen jogs

Step 2: Within 10 seconds, press UP or DOWN to change the ESD Level of detection. (Without feedback within 10 seconds, the actuator goes back to user mode. Go back to step 1.)

- **ESD Level 0 – High Sensitivity/Slow Jog:**
The obstacle detection is more sensitive. When selected, the screen moves up and down slowly.
- **ESD Level 1 (Default) – Moderate Sensitivity/Fast Jog:**
The obstacle detection is reliable on most screens. When selected, the screen jogs.
- **ESD Level 2 – Deactivated/Slow Jog:**
The obstacle detection is deactivated. When selected, the screen moves up and down slowly.

Step 3: Press the MY button for two seconds to validate the settings. The screen jogs to confirm.

References:

You can download a copy of the complete Somfy programming guide for RTS motors and remotes at: www.somfypro.com.

Any issues beyond these instructions, please call 800-22-SOMFY (76639).



FENETEX
RETRACTABLE SCREENS

Dooya/Fenetex Programming Instructions

The following instructions work for the Dooya and Fenetex motors and their 15 channel remotes.
Note: If multiple motors, power and program ONLY one motor at a time. If programming multiple motors and channels, you must select a new channel for each motor you want to control independently.

Please read each section thoroughly before initiating any programming sequence.

REMOTE FRONT:

Each remote has four buttons on the front as follows:

- | | |
|----------------|------------------------------|
| 1 - “^” (UP) | 3 - “-” (STOP) |
| 2 - “v” (DOWN) | 4 - “<>” (CHANNEL SELECTION) |

REMOTE BACK:

Each remote has four buttons surrounding the battery on the back as follows:

- | | |
|---------------------|--|
| 1 - Top left “P2” | 3 - Top right “P2” |
| 2 - Bottom left “M” | 4 - Bottom right is a picture of a clock |

Initial Programming:

NOTES:

- It is recommended to initially program Dooya remotes before the screens are installed.
- Timing is key with Dooya/Fenetex motors. If multiple motors, power and program ONLY one motor at a time. Motors will not function properly if more than one is programmed to a single channel.
- Each button is to be pressed in one second intervals. Pressing either too fast or too slow will void the programming process.
- Channel 0 is not to be used as it operates all channels programmed to remote.

Step 1: Select desired channel (1-15) on remote and turn over to access top left “P2” button.

Step 2: Plug in the motor, an audible single beep will be heard.

Step 3: Within 5 seconds, briefly press top left “P2” twice. Then press and release “^” (UP) button on front of remote. Motor will confirm programming by sounding multiple beeps.

Step 4: Press and release “^” (UP) button and motor will begin to turn. If no movement occurs, ensure proper connection to power and repeat steps 1 through 3 until motor recognizes remote.

Changing Direction:

1. Each motor has an attached dongle with clear plastic cover located at end of motor.
2. To change direction, **Press and HOLD** dongle button for 5-10 seconds until three (3) audible beeps are heard.
3. Check motor to confirm direction change has occurred.

Limit Setting:

Step 1: Count the number of rotations of your motor. You will want to set this to the lowest limit to prepare for screen installation.

Step 2: Install screens.

Step 3: Perform limit adjustments based on motor location.

NOTES:

- **There are two pairs of set screws on the end of each motor, marked by WHITE (+) and RED (-). Adjustment is to be made using set screws on opposite side of the cord.**
- **Adding rotations is easier and can be made at any time during the programming process. Reducing rotations can only be confirmed by rotating motor past newly set limit and then rotating back.**

MOTOR LEFT:

These are for left-hand motor operation only. Clockwise adjustments to either set screw will add rotations and counter clockwise adjustments will deduct rotations.

- Using the supplied adjuster, set upper limit by rotating WHITE (+) set screw.
- Using the supplied adjuster, set lower limit by rotating RED (-) set screw.

MOTOR RIGHT:

These are for right-hand motor operation only. Counter clockwise adjustments to either set screw will add rotations and clockwise adjustments will deduct rotations.

- Using the supplied adjuster, set upper limit by rotation RED (-) set screw.
- Using the supplied adjuster, set lower limit by rotating WHITE (+) set screw.

Deleting Motor Connection from Remote:

NOTES:

- **You can delete one motor connection while other motors are still plugged in.**
1. Access the channel with the motor connection you want to delete.
 2. Using one second intervals or less, quickly press and release "P2" on the back of the remote, then press "-" (STOP) on the front, then "P2" again. If done correctly, you will hear four beeps and motor will no longer respond. If no beeps heard, repeat sequence faster.
 3. Repeat for each channel connection you want to delete from remote.
 4. Deleting connection will clear **ALL** linked remotes.

Adding Motor Connection to Additional Remote(s):

NOTES:

- **Keep original remote separate from additional remotes you are cloning. (It's recommended that you mark original remote with a temporary marking, such as a piece of tape.)**
1. Prepare remote(s) by removing back battery cover of all remotes.
 2. Select same channel to be cloned on all remotes using "UP" and "DOWN" buttons.
 3. Using one second intervals, press top right "P2" button twice on remote already programmed with desired settings, **then within one second press top right "P2" button on new remote(s).**
 4. Successful cloning will be confirmed by five audible beeps.
 5. **Each channel must be individually cloned, ensure correct channel is selected on all remotes to be added.**

Valid Channel Selection:

NOTES:

- **Each remote has 15 preset channels. When there are fewer than 15 screens, extra channels can be hidden for easier end user function. This will allow you to only access programmed channels in use by your system.**
 - **Modification to remotes can be made with all motors plugged in. Each remote must be individually modified to reflect desired number of channels.**
1. Press and hold the left and right CHANNEL SELECTION buttons together ("<" ">") for five seconds until the number "15" is displayed.
 2. Using the "<" or ">" CHANNEL SELECTION buttons select the maximum number of channels to be used for your system, between 1 and 15.
 3. After the desired number of channels is selected, press and release STOP ("-") button and a small "o" will be displayed on screen confirming successful modification.
 4. If more channels are needed at a later time, repeat steps 1-3 to access previously hidden channels.

WARNING: DO NOT USE ANY TYPE OF OIL BASED LUBRICANT ON THE SCREEN. IF YOU DO YOU MUST CLEAN THE SCREEN AND TRACKS WITH SUBSTANTIAL AMOUNTS OF ELECTRICAL CONTACT CLEANER TO DEGREASE. OIL BASED LUBRICANTS ATTRACT DIRT AND DUST WILL CAUSE SCREENS TO STICK.

TROUBLE SHOOTING

Problem: Screen rolls up unevenly - Screen is out of level. Adjust level at idler or hood if necessary, repeat Step 3.

Problem: Screen still rolls up unevenly- Place a shim between the screen and reel on the low side.

Problem: Screen still rolls up unevenly- Reel is not centered between brackets, Repeat Step 4.

Problem: Weight bar is shifted to one side - Slide weight bar to center, it is not attached to anything.

Problem: Motor does not work and it makes a clicking sound. Your ABS clutch is backwards. See note in Step 3.

Problem: Motor does not respond to remote. Your motor was not reset by us correctly and is programmed to a different remote or the motor has gone bad. Call Somfy tech support (800) 227-6639. Explain the issue and they can take you through the steps to confirm if this a motor issue or programming/remote issue.

Problem: The location is windy and screens stick going down- weight can be added to weight bar cavity, however screen may need human assistance to lower in very windy locations. Screens with ABS clutches will stop the motor when this occurs. To restart a stopped screen, push up button then down button on remote.





Installer	
Date	

JOB COMPLETION CHECK LIST

Screens Installed and operating correctly

- Confirm that tracks are adjusted correctly.
- Confirm that track screws are not blocking screen operation.
- Confirm the screen track pre-feeder are in place and screen is in the tracks.
- Check that protective tapes and visible production labels are removed.
- Upper and lower limits set correctly and remote(s) is/are in user mode.
- Remotes programmed and operating correctly.
- All power cords secured so they will not interfere with screen operation.
- Confirm a rain loop is present in the motor wire run.
- All wire connections tight and installed per code.
- Electrical is to be completed by electrician.
- If hoods have been ordered visually check that they are secured.

Review Screen Operation with Owner or Owner's Agent

- Confirm operation of screen up and down 3 times in the presence of the owner or owner's agent explain basic screen operation.
- If the screen is outfitted with an ABS clutch explain and demonstrate this operation.
- Explain that Screen Operation and maintenance and service information is in the Owner's Guide.
- Explain that warranty is online and to register online.
- Place in the FENETEX bag: Remote(s) and Owner's Guide w/dealer/company business card attached.
- Physically hand the FENETEX bag to the owner or owner's agent when having the owner or agent sign this checklist.

I have received the Fenetex bag with the remote(s) and Owner's Guide. I have observed the screens operating correctly and have been instructed on basic screen operation.

Print name/signature/ date of owner or owner's agent.

Before you leave the jobsite

- If screens are installed during the construction phase of project cover track opening with green tape and wrap the screen and reel with Kraft paper and tape closed to prevent construction dust from getting into the screen track or on the screens.
- Clean your work area.
- If no owner or owner's agent is on site leave the bag in a protected but obvious location and photograph the bag in this location. Text or email this photo to your office personnel who will relay it to the owner or owner's agent.

FENETEX Owner's Bag Contents

1. Remotes
2. Owner's Guide with Serial No. and Installer Contact label.