

SM AUTOMATIC

MOTORIZATION FOR INTERIOR WINDOW TREATMENTS

2024

PRODUCT CATALOG



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Providing Exceptional Quality and Service Since 1982

BASIC SWITCHING CONTROL TERMINOLOGY AND INFORMATION GUIDE

LOW VOLTAGE MODULAR SWITCH (RECESSED WALL INSTALLATION)

Available with drapery motors only. A specially designed three button switch, open-stop-close, which allows direction reversal at any point. Low voltage switching connections are made, using RJ-11 modular cable, from the switching port of the motor to a modular wall jack (phone type); then inside the wall to the junction box containing the switch. Power to the motor is supplied by a 9 foot power cord.

HARD WIRED (HW)

All motors (except drapery motors and Model 9700) come with a 4 wire, 6 foot pigtail, consisting of a common, two directional wires and a ground. Used for wiring to a powered, SPDT (single-pole, double-throw) 110VAC switch. The motor's pigtail is connected either by hard wiring or by plug/receptacle to an individual junction box. If more than one motor is controlled by a single switch, isolation (parallel) relays are required.

HARD WIRED WITH ISOLATION RELAYS (HW/ISO)

This variation of Hard Wiring is used when controlling two or more motors simultaneously from a single SPDT switch. Each motor pigtail (with relay incorporated) is connected either by hard wiring or by plug/receptacle to an individual junction box. The wiring from each junction box is connected from one to the next; with the wiring from the terminal junction box going to the switch.

RADIO FREQUENCY WIRELESS REMOTE CONTROL (TI-RF)

A radio frequency controlled system for Models 140-S, 400, 9600, 9300, 5100 and 8000 systems. The receiver is built-in for Models 140-S, 9600 and 8000. The maximum range is 100'. The style of the Ti transmitters are sleek with an anti-scratch white piano lacquer finish. The Ti transmitters are available in 1, 2, 6 and 16 channels. Each transmitter includes a wall bracket. The TiWMT is a wireless wall switch with removable transmitter available in 1, 2 and 6 channels.

RADIO FREQUENCY WIRELESS REMOTE CONTROL (RTS)

Radio Technology Somfy, provides a comprehensive method for radio frequency control of motorized systems, with cross platform control system integration. Available both as stand alone, single motor RF control, or as an integrated part of a whole house automated system.

RECHARGEABLE BATTERY SYSTEMS

No outlet required and eliminates any electrical work. This type of motor has a built-in battery that lasts up to a year before requiring a recharge. The plug-in charger includes a 14 ft. cord. Systems available up to 144" and 26 pounds. Compatible with all RTS controls.

CONTROL SYSTEM

Provides an interface with a home theater, multi-room control system, or whole-house automation system. For drapery motors interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation. Operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function. For Model 140-S, close the open/close contacts simultaneously for the stop function. All other motors (except model 9700) use two (2) momentary dry contacts. All motors are fully compatible with control systems by AMX, Control4, Crestron Electronics, Lutron Electronics, Savant, Vantage, and others.

Model 140-S Drapery System

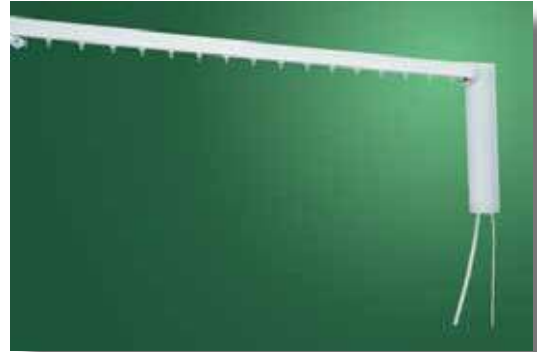


FEATURES:

- Built-in RF remote control receiver.
- Smart Home App Control.
- Motorized drapery track with ultra-quiet operation (less than 35 dB).
- Drapery can head up to cover track.
- Manual operation override.
- Automatically identifies and sets Open and Stop operation limits.
- The Touch Motion function performs opening/closing of draperies without using any controls.
- Dry contact or line voltage controlled.
- Track available in 19 ft. lengths without a splice.

MODEL 140-S DIRECT DRIVE DRAPERY TRACK SYSTEM

The Model 140-S Direct Drive Drapery Track System is a high quality belt-driven track system. The motor has a built-in RF Receiver, and has a touch motion or tug feature that works by simply tugging the drapery to engage the motor. In case of a power outage, the built-in clutch allows the drapery to be pulled easily by hand. The motor is used in conjunction with our 80 Series Roller Track, which is aluminum with an EPD (electrophoretic deposition) paint coating to assure smooth operation. The profile of the track was designed to allow the drapery to head-up or hang below. The components are all high quality. The drive pulley contains a steel bearing (not plastic), the carriers are designed with special resin wheels for virtually silent traversing, and the belt is steel reinforced. All to assure smooth reliable operation.



SPECIFICATIONS MODEL 140-S

Dimensions (H) x (W) x (D)	13" x 3.125" x 2.125"	Power consumption	During stand by: 2.5 W or lower Max. load operation: 90 W
Track Compatibility	80	Control board operating voltage	5 VDC
Maximum Drapery Weight (One Way Draw)	100 lbs	Control board operating current	5 mA
Maximum Drapery Weight (Center Open)	140 lbs	Amperage	1.4 A
Maximum Track Length	36 ft.	Operating speed	6 in/sec
Rated power voltage	100 VAC to 240 VAC	Rated current	0.8 N.m
Cycle	50/60 Hz	Ambient temperature	0 to 50°C (non-condensing)
		Time rating	4 min. (continuous operation)
		Noise level	35 dB (in default motor speed)

BELT DRIVE DRAPERY MOTOR

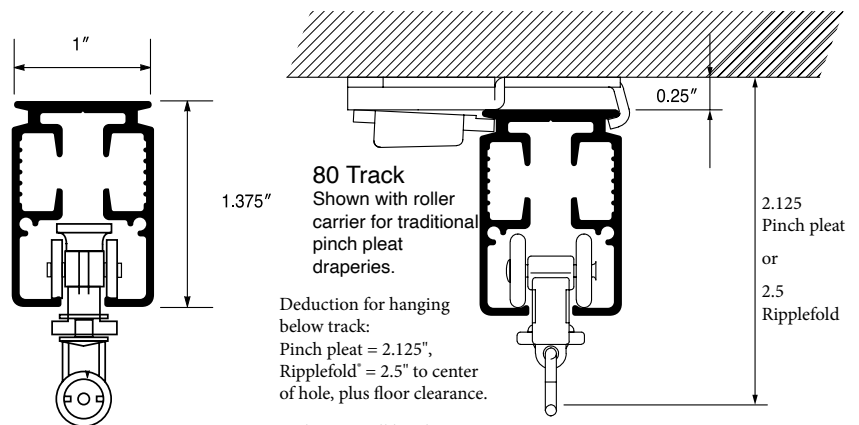
80 SERIES DUAL CHANNEL TRACK

The 80 Series Dual Channel Roller Track is aluminum extruded with an EPD (electrophoretic deposition) paint coating to assure smooth operation. The profile of the dual channel track was designed to allow the carriers to be isolated in a separate channel away from the belt. Available for pinch pleat draperies, which may head-up or hang below the track.

Ripplefold® style roller carriers are available in 80%, 100% and 120% fullness. The maximum length track without a splice is 234.625" for straight tracks and 212" for custom curves.

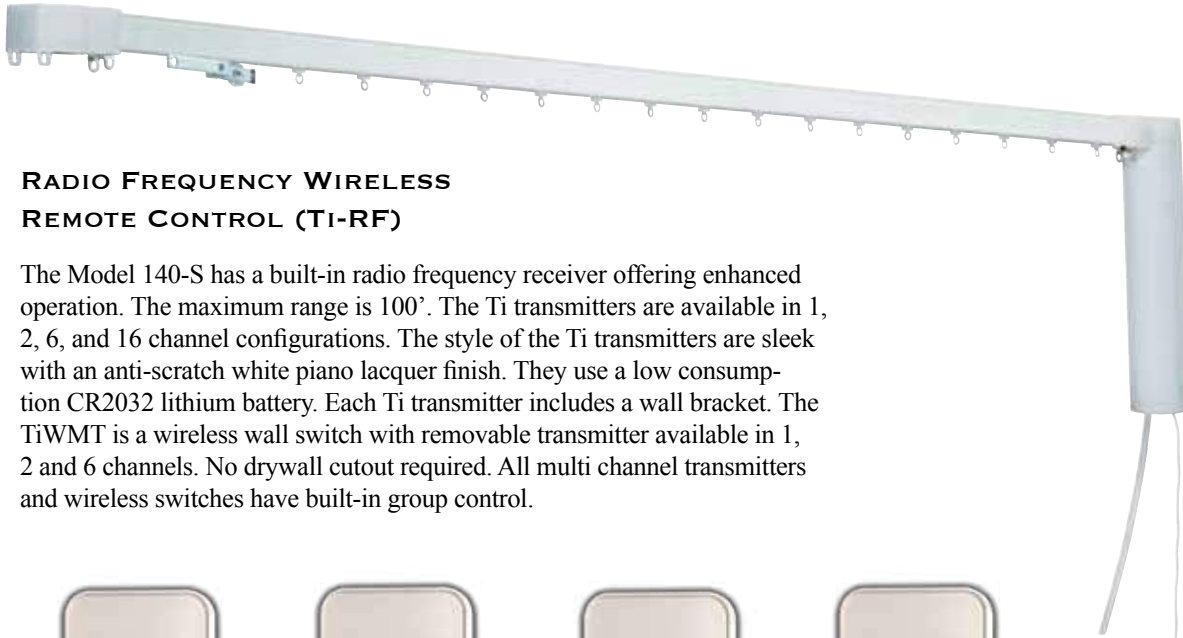
Available as either ceiling or wall mount.

80 TRACK CROSS SECTION AND INSTALLATION DIMENSIONS



Recommend installation of brackets in intervals of 30".

MODEL 140-S BELT DRIVE DRAPERY SYSTEM



RADIO FREQUENCY WIRELESS REMOTE CONTROL (TI-RF)

The Model 140-S has a built-in radio frequency receiver offering enhanced operation. The maximum range is 100'. The Ti transmitters are available in 1, 2, 6, and 16 channel configurations. The style of the Ti transmitters are sleek with an anti-scratch white piano lacquer finish. They use a low consumption CR2032 lithium battery. Each Ti transmitter includes a wall bracket. The TiWMT is a wireless wall switch with removable transmitter available in 1, 2 and 6 channels. No drywall cutout required. All multi channel transmitters and wireless switches have built-in group control.



Ti-1



Ti-2



Ti-6



Ti-16



TiWMT-6



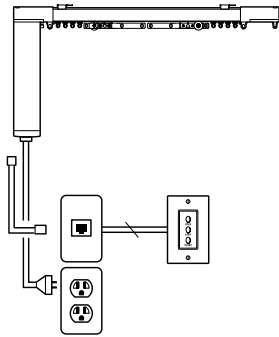
Ti-Hub
App Control

The Ti-Hub offers smart home App control. Simple set up and integration with all Ti-RF controlled motors. Create scenes, timers, "Hey Siri" voice commands, Alexa and Google home compatible, and control your draperies, shades or blinds from anywhere in the world.

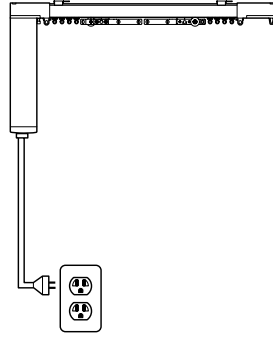
MODEL 140-S BELT DRIVE DRAPERY MOTOR ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

Recommend use of a Surge Protected 110 VAC duplex outlet.

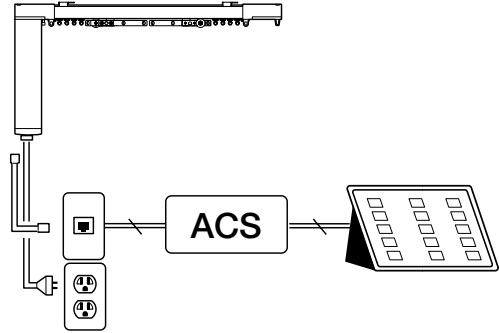
A. S-300A Switch Individual Control



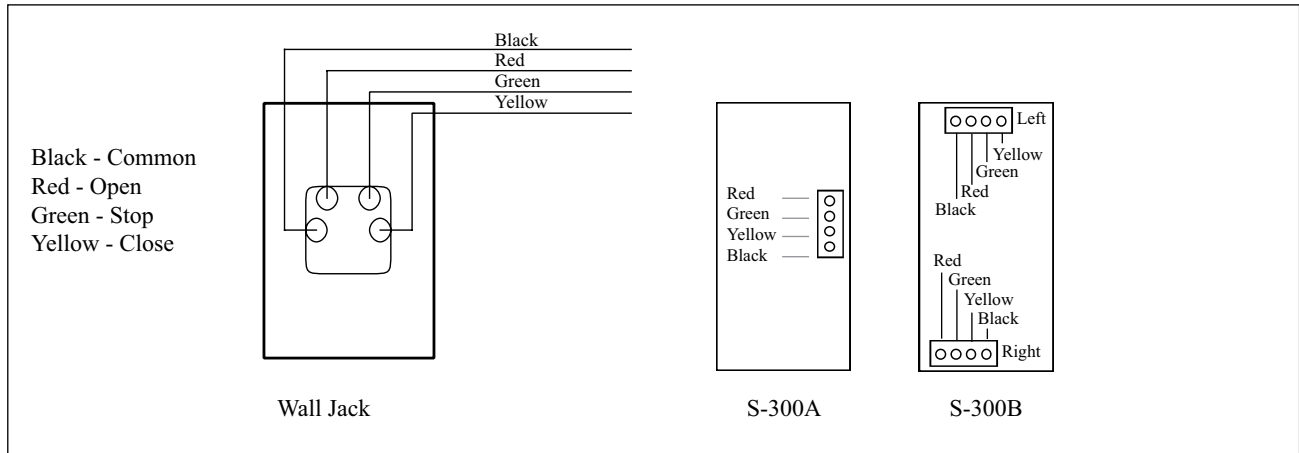
B. Individual Radio Frequency Remote Control



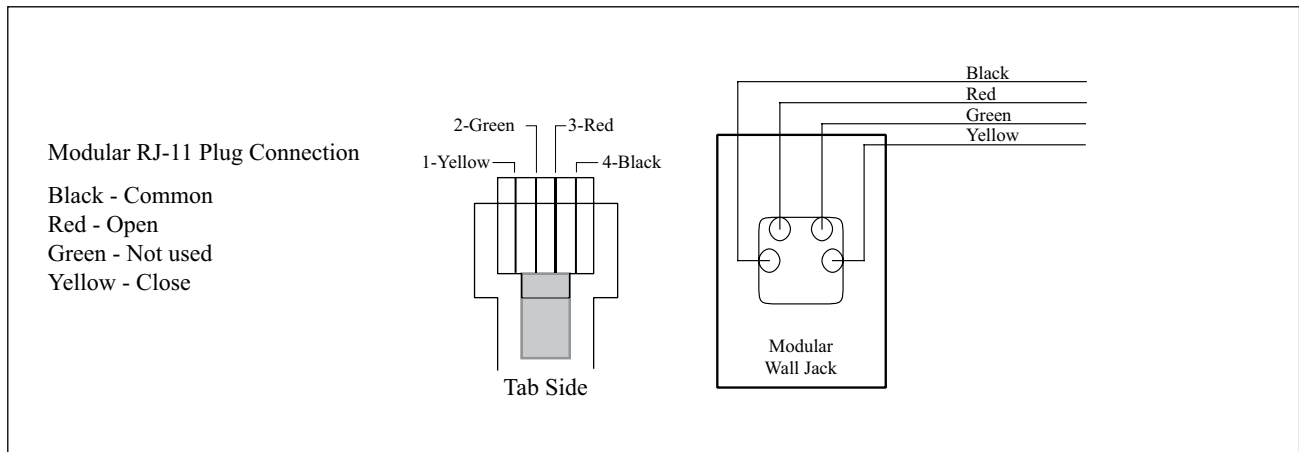
C. Automation Control System



D. Modular Wiring for Model 140-S Connecting to S-300A or S-300B Switch

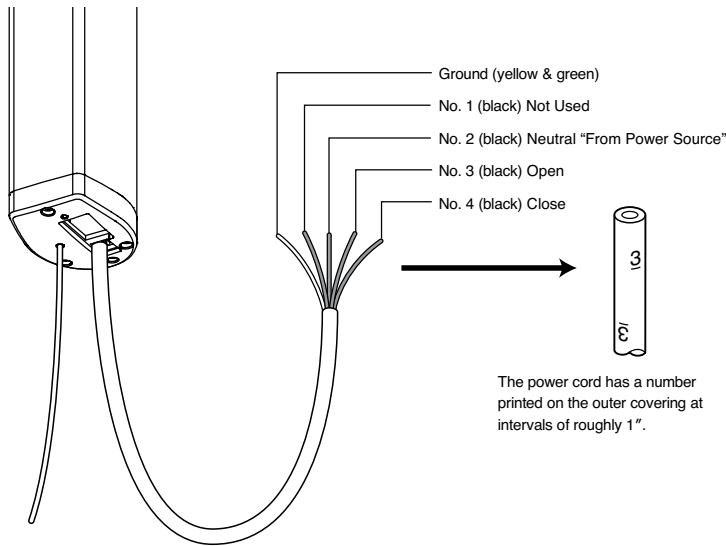


E. Modular Wiring for Model 140-S Connecting to Automation Control System



MODEL 140-S BELT DRIVE DRAPERY MOTOR ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

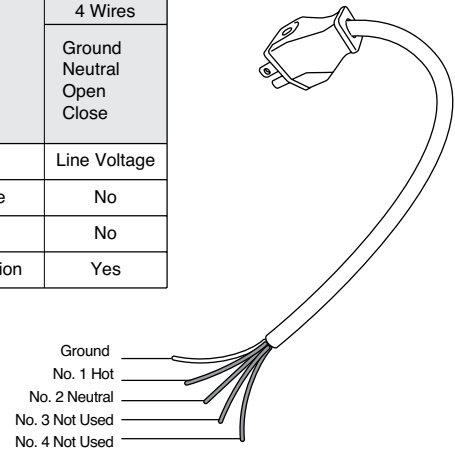
F. Line Voltage Switching Control Using 4 Wires



Operations and Connecting Diagrams

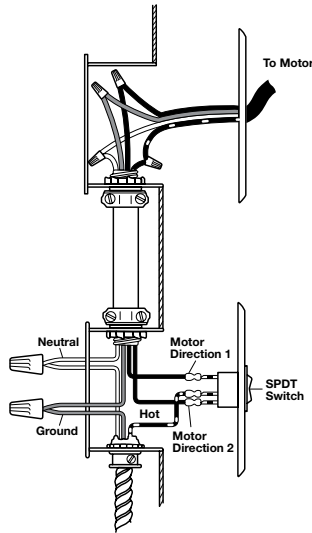
Wire	4 Wires	
		Ground
Contact	Line Voltage	Open
RF Remote	No	Close
Slow Stop	No	
Touch Motion	Yes	

G. 3 Prong Grounding Plug Connection

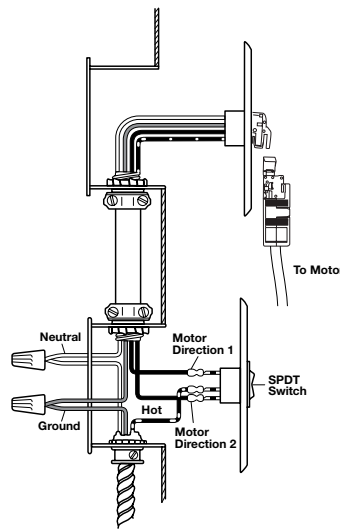


Hard Wiring (HW)

All motors come with a 4 wire 18 gauge grounded pigtail. This consists of a neutral, two directional wires, and a ground. This type of wiring is used when the motor is to be controlled by a recessed wall switch. The pigtail is connected by either hard wiring or a plug/ receptacle. A single motor is controlled by a SPDT (single pole, double throw) switch. Two motors can be controlled together by a DPDT (double pole, double throw) switch.



Standard Hard Wiring



Hard Wiring with optional plug/receptacle

400 SERIES DRAPERY MOTORS



Control options include
Wall Switch - RF - RTS® - Timer

Fully Compatible with All Major Home
Automation Systems, including those
manufactured by AMX, Control 4, Crestron,
Lutron Electronics, Savant, Vantage and others.

Motors assembled in the USA from components
manufactured in the USA and Japan.

POWERFUL FEATURES:

QuietSTOP

In a significant enhancement of previous designs, the motor's intelligent electronics anticipate limit positions, providing gentle and quiet stopping.

OSP

Optimum Stacking
Positioning

No settings. No fuss.

Perfect appearance every
time.

REALSPEED

Moving swiftly and
quietly at 10"/second,
draperies get to where
they need to be.

TRU_Load

Load capacities of our
motors do not decrease
as the track size
increases.

DIRECT DRIVE DRAPERY MOTORS

Direct drive motors are used in conjunction with roller tracks as part of a direct drive system. The motor attaches to the end of the track where a shaft on the motor fits into a pulley, which moves the cable and operates the track components. Available as a straight or curved system, with the operating cable strung on the inside of the track. The motor is flush with the front edge of all tracks. All motors are available with surface mount or recessed low voltage switches, infrared or radio frequency wireless remote control, or home automation systems. Drapery should be manufactured with a 3.5" return to cover motor projection and a 5" space between the last two pleats on return (motor) side. Drapery should not drag on the floor, or rub against pocket or valance. Do not use silicone to lubricate as it will adhere to cord and cause slippage around drive wheel.



SPECIFICATIONS	MODEL 470	MODEL 475
Dimensions (H)x(W)x(D)	6.41" x 4.01" x 2.75"	6.41" x 4.01" x 2.75"
Track Compatibility	30, 90	30, 90
Weight	4.5 lbs.	4.6 lbs.
Voltage	120 VAC	120 VAC
Amperage	0.70 A	0.76 A
Cycle	60 Hz	60 Hz
Wattage	60 W	80 W
Horsepower	0.07 hp	0.11 hp
Maximum Drapery Weight	90 lbs.	175 lbs.
Maximum Track Length	50 ft.	65 ft.
Traversing Speed	10 in/sec	10 in/sec
Thermal Overload	120°C	120°C

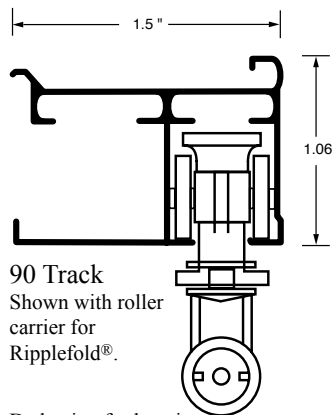
DIRECT DRIVE ROLLER TRACKS

90 DUAL CHANNEL TRACK

SM Automatic offers the Series 90 Dual Channel Track for pinch pleated draperies, as well as alternative Contemporary pleating styles, often referred to generically as S-fold or Z-fold.

Pinch pleated systems utilize 5/8" roller carriers for minimal stacking (which allows the option to hang the draperies below the track, or head up to conceal the track), while roller carriers (9/16") have also been designed for Contemporary pleating applications, which guarantees smooth operation.

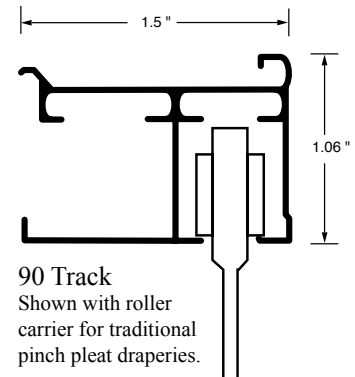
The aluminum track has a white finish. The maximum length of track without splice: 250". Available as either ceiling or wall mount.



Deduction for hanging below track: 1.5" plus floor clearance. Sew snap tape at top of fabric.

Ceiling or wall brackets add 0.25" to track height.

Add an extra snap at 3" from end for overlaps and returns.



Deduction for hanging below track: 1.5" plus floor clearance

Ceiling or wall brackets add 0.25" to track height.

DIRECT DRIVE ROLLER TRACK

30-VQ

The 30-VQ (Very Quiet) track is a breakthrough in combining noise reduction, durability and strength. Made from Hishimetal, the 30-VQ is formed by bonding high quality steel with layers of PVC, and coating with acrylic resin.

Assembled direct drive roller tracks include: cut-to-measure track, master carriers, roller carriers (3 per foot are standard, with extra carriers at additional cost), end pulleys, and plastic covered steel cable. Steel tracks are PVC coated inside and out. Roller tracks are also available as cord drawn and hand drawn. Since the draperies hang below the track, a recess or top treatment is strongly suggested. The maximum track width without splice is 237".

30

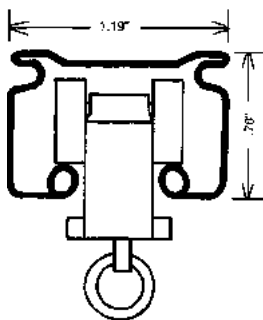
Steel with white finish

Dimensions: 1.19" x .78" (30mm x 20mm)

Deduction for hanging below track: 1.25"

Plus floor clearance

Capacity: 11 lbs. per carrier



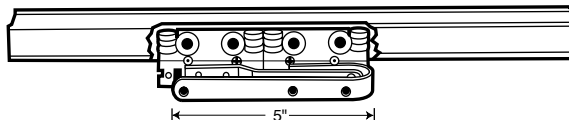
Cross sections of tracks shown actual size

ROLLER TRACK MASTER CARRIERS

90 Track, which now includes as standard, long arm overlap master carriers

overlap: 5"

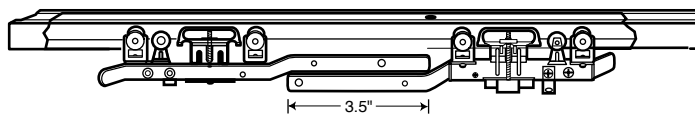
underlap: 3.5"



30 Track with standard overlap master carriers

overlap: 3.5"

underlap: 3.5"



Custom extended arms may be available. If required, call Customer Service for details.

DIRECT DRIVE DRAPERY SYSTEMS

HOW TO SELECT THE CORRECT DIRECT DRIVE SYSTEM FOR YOUR SPECIFIC REQUIREMENTS

1. Decide on the direct drive motor which best suits your needs, based on the actual weight of the draperies.
2. Choose the roller track which correlates with your project requirements. Criteria to be considered are: overall track size, stacking requirement, drapery pleating style, drapery weight, pocket or recess dimensions, and whether or not the draperies can hang below the track.
3. Refer to pricing below to find the system cost according to size requirements.
4. Add control options as listed on pages 20-22, as described on page 23.
5. All systems include motor, track and brackets. Switching controls must be ordered in addition.
6. If track is curved, refer to page 16 for additional information and costs.



CONTEMPORARY PLEATING INFORMATION

S - fold

- 120% fullness - carriers spaced at 1.875" (4.25" snap tape)
- 100% fullness - carriers spaced at 2.125" (4.25" snap tape)
- 80% fullness - carriers spaced at 2.375" (4.25" snap tape)
- 60% fullness - carriers spaced at 2.625" (4.25" snap tape)

RIPPLEFOLD SNAPS SPACING

- 1st to 2nd snap on master carrier
- 2.625" on center
- 2nd snap on master to 1st roller carrier
- 4.25" on center

Z - fold

- 120% fullness - 3.75" pleat (7.5" snap tape)
- 100% fullness - 4.25" pleat (8.5" snap tape)
- 80% fullness - 5" pleat (10" snap tape)

Draperies using Contemporary pleating must hang below the track.

DIRECT DRIVE ROLLER TRACKS



Please consult the electrical/electronic options on pages 20-22, to order either the appropriate switch(es) or remote control options. Please refer to page 68 for ordering information and page 70 for installation guidance.

DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL INFORMATION

LOW VOLTAGE MODULAR SWITCH (RECESSED WALL INSTALLATION)

Available for drapery motors only. The switch conforms to a single gang junction box. Low voltage switching connections are made from the switching port of the motor to a modular wall RJ-11 jack (phone type) using a modular cable; then inside the wall to the junction box containing the switch. *The modular cable is nonstandard, and should be supplied by SM Automatic (see page 14).* Low voltage 4 conductor wire run within the wall is typically supplied by the electrician. Power to the motor is supplied by a 9 foot power cord. Electrical outlet and wall jack should be positioned behind drapery, typically 12" directly below motor.



The S-1DD, a hand held or surface mount version is also available. Switch is supplied with a 12 foot, low voltage cable, that plugs into a switching port of the motor.

RADIO FREQUENCY WIRELESS REMOTE CONTROL (TI-RF)

The Model 140-S has a built-in radio frequency receiver offering enhanced operation. The maximum range is 100'. The Ti transmitters are available in 1, 2, 6, and 16 channel configurations. The style of the Ti transmitters are sleek with an anti-scratch white piano lacquer finish. They use a low consumption CR2032 lithium battery. Each Ti transmitter comes with a wall bracket. Ti-RF is compatible with Models 140-S, 9600, 9300, 5100, and 8000.



Recommend use of a Surge Protected 110 VAC duplex outlet.

RADIO FREQUENCY WIRELESS REMOTE CONTROL (RTS)

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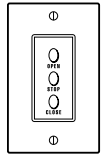
CONTROL SYSTEM

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation. Operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function.

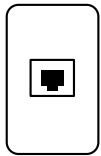
All drapery motors are "Smart Motors", designed with built-in logic boards. They are all fully compatible with all major control systems, including those manufactured by AMX, Control4, Crestron Electronics, Lutron Electronics, Savant, and Vantage Controls.



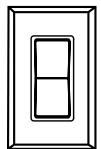
ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION LEGEND



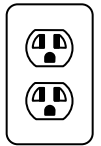
S-300A Switch



Modular Wall Jack (RJ-11)



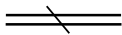
S-DEC2 Decora Paddle Switch



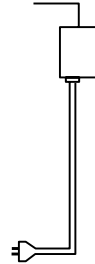
Standard 110 volt Duplex Outlet
(Recommend surge protection)



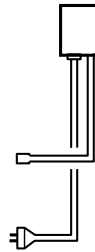
Modular Cable (four conductor: 4/26)



In-wall Modular Cable (four conductor: 4/26)
(supplied by others)



Radio Frequency Receiver



Control System Interface

Low Voltage SPDT Interface



Automation Control System
(supplied by others)



Automation Control System
User Interface
(supplied by others)

DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

SWITCHES

S-300A White



S-300A Ivory



S-300B White



S-300B Ivory



S-1DD



RADIO FREQUENCY REMOTE CONTROL (TI-RF)

TiWMT - 1, 2, 6



RADIO FREQUENCY REMOTE CONTROL (SMA-RTS)

Situo 1 RTS



Situo 5 RTS



DecoFlex 5 RTS



RADIO FREQUENCY REMOTE CONTROL (TI-RF)

Ti-1



Ti-2



Ti-Hub
App Control



Ti-6



Ti-16

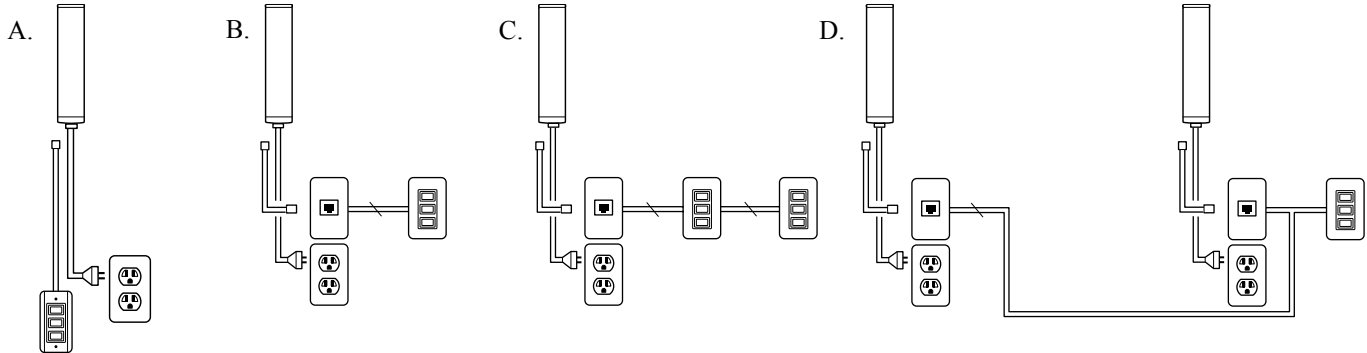


DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

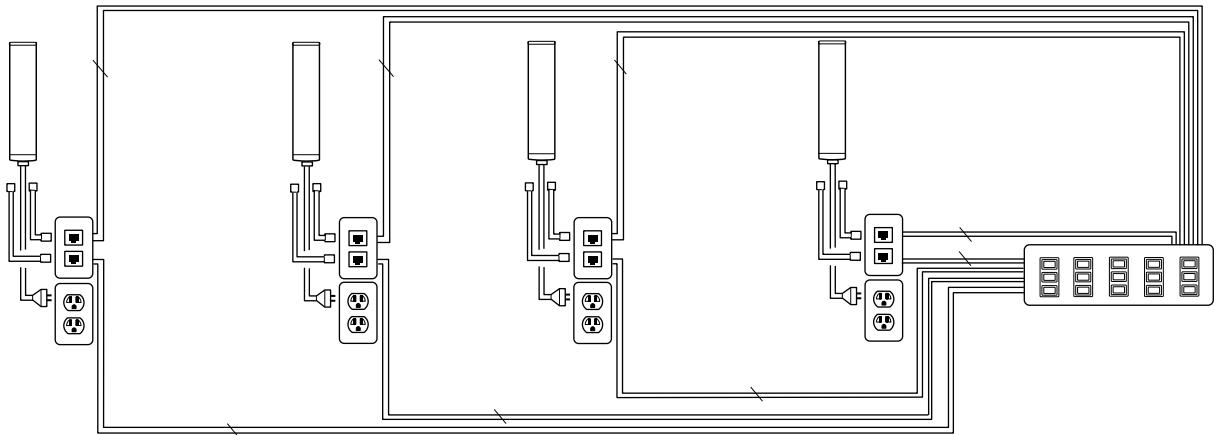
Recommend use of a Surge Protected 110 VAC duplex outlet.

- A. S-1DD Switch Individual Control
- C. Two S-300A Switch Individual Control

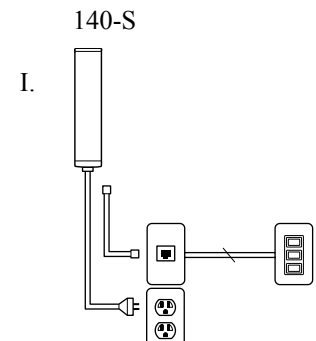
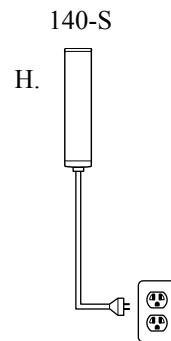
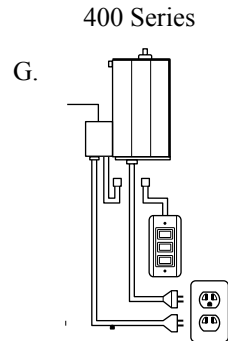
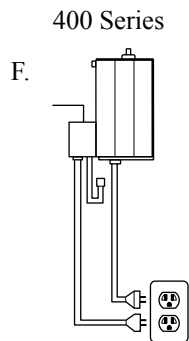
- B. S-300A Switch Individual Control
- D. S-300A Switch Group Control



- E. Individual and Group Switch Control



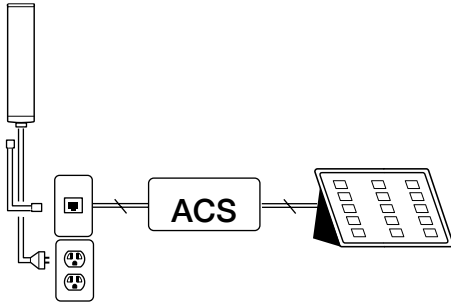
- F. Individual Radio Frequency Remote Control - 400 Series
- H. Individual Radio Frequency Remote Control - 140-S
- G. Individual Remote Control with S-1DD - 400 Series.
- I. Individual Remote Control with S-300A - 140-S



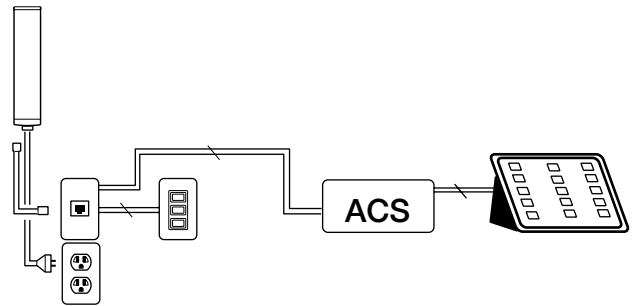
DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

Recommend use of a Surge Protected 110 VAC duplex outlet.

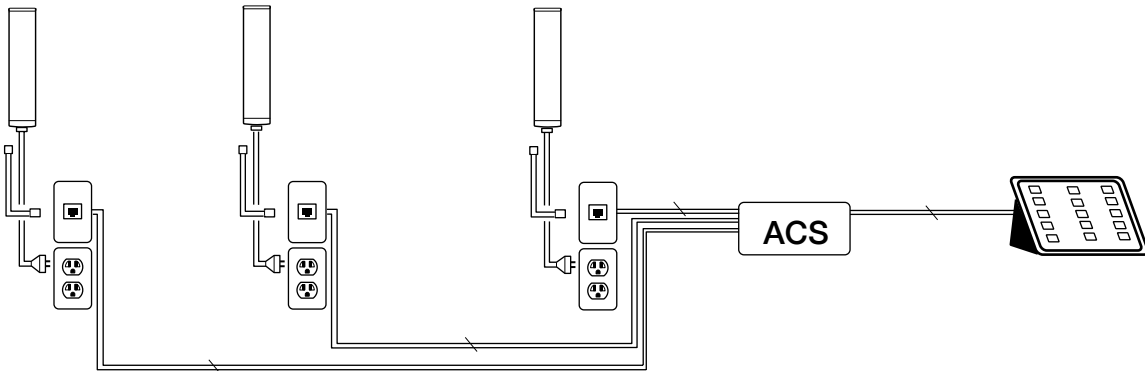
J. Automation Control System



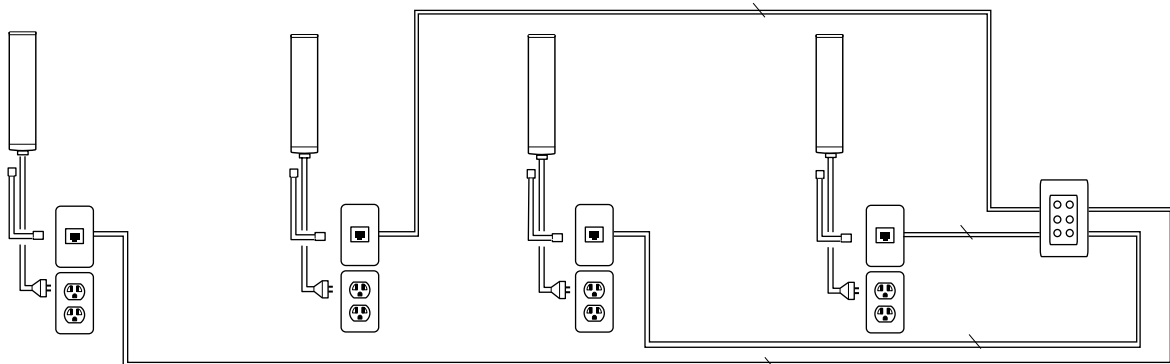
K. Automation Control System with Individual Remote Control and S-300A Switch



L. Individual and Group Automation Control System

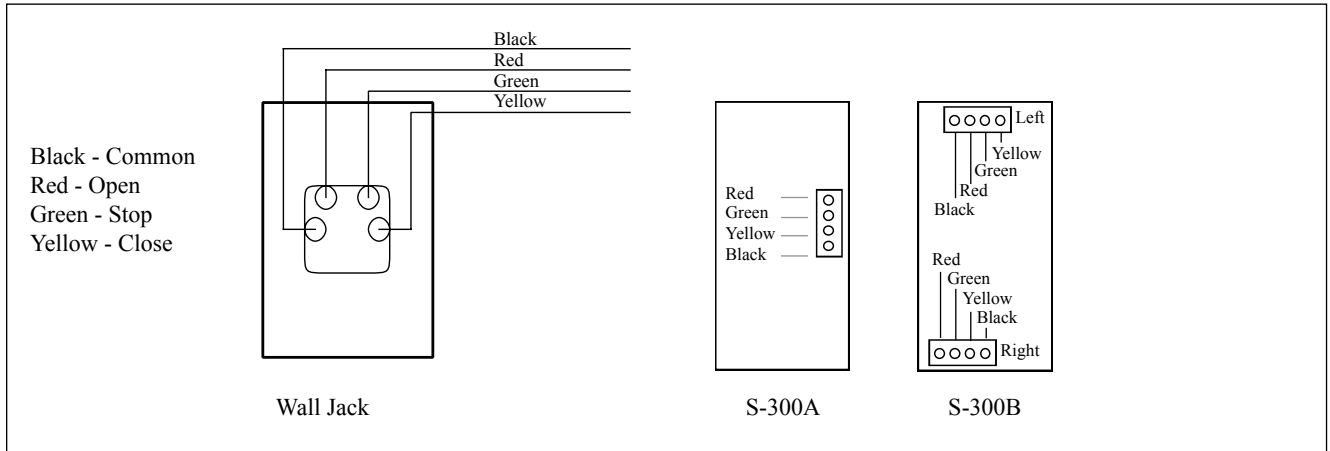


M. Double Group Switch Control with S-300B Switch

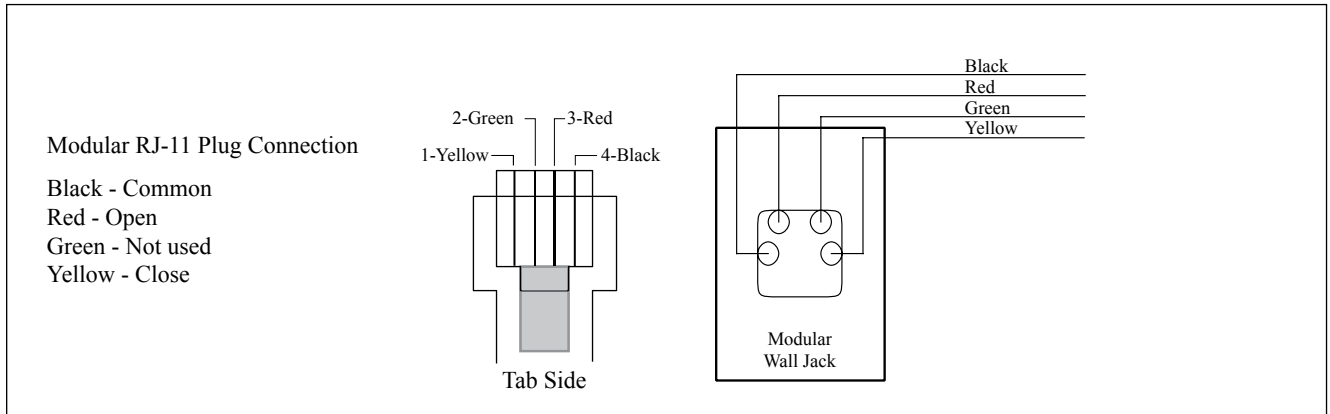


DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

N. Modular Wiring for Direct Drive Motors Connecting to S-300A or S-300B Switch

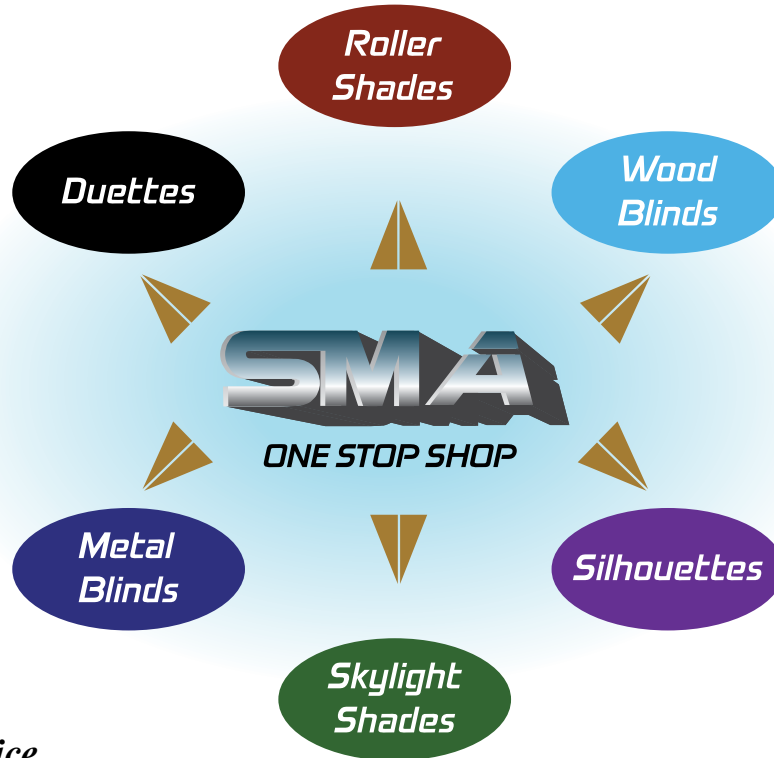


O. Modular Wiring for Direct Drive Motors Connecting to Automation Control System



ONE STOP SHOP FOR COMPLETE SYSTEMS - INCLUDING SHADES AND BLINDS FOR:

MODELS 9300, 9600, 9700, 8000 AND 7355



You now have a choice.

You can buy your blinds and shades from another vendor, and install (or have us install) on our motorized system, or you can buy the complete system from us, including the blind or shade.

For years we've offered a full service roller shade program with room darkening and light filtering shades, and now we offer competitive prices on complete systems for:

Cellular Shades with Model 9600


Silhouette and Vignette Shades with Model 9700 series

1" and 2" Aluminum Horizontal Blinds (8 gauge) with Model 8000

1" and 2" Basswood Horizontal Blinds with Model 8000

Room Darkening and Light Filtering Skylight Shades with Model 7355

While roller shade pricing can be found on pages 37-39, simply call for pricing on any of the blinds and shades shown above.

Wherever you see this icon  we can seamlessly provide you complete systems, with our One Stop Shop program.

ONLY AT SMA, WILL YOU GET A MOTORIZED CELLULAR SHADE THAT'S **SMART!**

SHADE **M**MOTORIZED WITH **A**DVANCED **R**EACTION **T**ECHNOLOGY

Tired of motorized cellular shades with a broken lift tapes caused by the shade hitting an obstruction?
You never will again. Guaranteed.

WITH THE SMART® SYSTEM...



SHADE HITS OBSTRUCTION WHILE LOWERING,
with SMART® SYSTEM



SHADE RAISED AFTER HITTING OBSTRUCTION,
with SMART® SYSTEM

WITHOUT IT...



SHADE HITS OBSTRUCTION WHILE LOWERING,
without SMART® SYSTEM

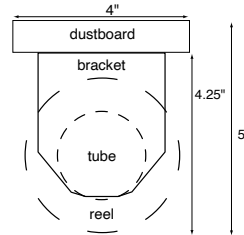
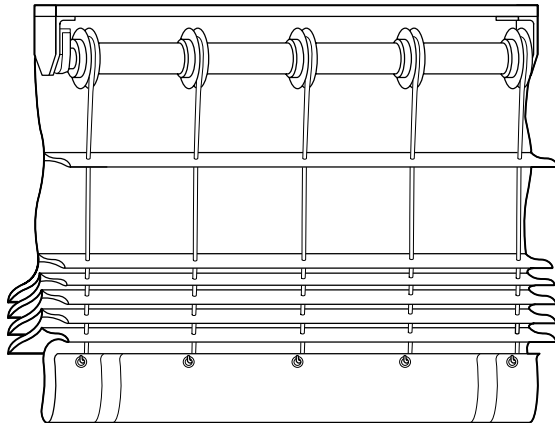


SHADE RAISED AFTER HITTING OBSTRUCTION,
without SMART® SYSTEM

Questions? Call Customer Service at 310-220-2600 or 800-533-3040
or email: sales@smautomatic.com

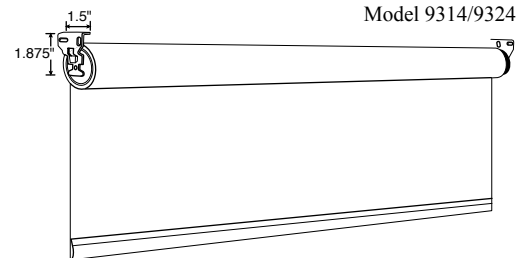
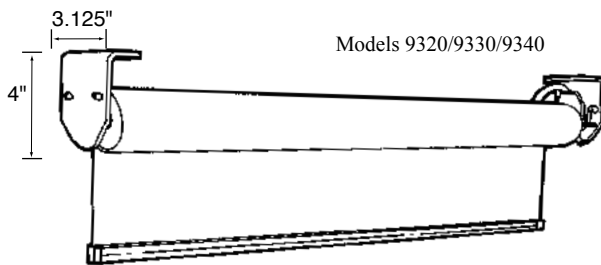
MODEL 9300 SERIES LIFT SYSTEMS

Roman, Austrian, or balloon shades



In fabricating shades, place the first column of rings, or grommets, 2 inches in from the shade sides (with top rings 5" below dust board); with normal spacing on remainder of rings or grommets.

Roller shades



The Model 9300 Series Lift System is designed to lift Roman shades, Austrian pouffes, balloon shades, solar screens, roller shades, woven woods, and other shade lifting applications.

The standard Model 9320/9330/9340 system consists of a tubular motor concealed inside a 2 inch aluminum tube. The motor revolves the tube, clockwise and counterclockwise, by pivoting on end brackets. Easy to set limit switches allow for automatic stopping at top and bottom positions. The maximum rotations of the motor is 41 revolutions (26 feet of lifting).

The Model 9314 is essentially a compact version of the Model 9320. Rather than the 2" diameter tube used in the Model 9320, the Model 9314 uses a 1.5" (40 mm) aluminum tube. The Model 9314 may be ordered in place of the 9320, for any opaque or SheerWeave shade on these pages, up to a maximum size of 96" x 96". When using with Roman style shades, the minimum size for the shade dust board is 1" x 3" (true). Maximum width is 96". Center supports are not available.

Exclusive take-up reels are what separates the Model 9300 Series Lift System from other similar products. The reels were designed to be used with all types of shades that traditionally use cords. In place of the cords, a flat, 6mm (1/4"), tape is used.

Concealment of system is recommended by recessing in a pocket, or using a top treatment. If your treatment is a Roman shade, Austrian pouffe, balloon shade, or woven wood, concealment can be achieved by fabricating the shade on a 1" x 4" (true) dust board, and mounting the lift system to the bottom of a dust board. The minimum size dust board for a Roman, Austrian or balloon shade is 1" x 4" (a "true" 4" board, rather than one trimmed to 3.5" is recommended).

Basic system includes: motor, 2 inch diameter aluminum tubing, and brackets. Reels are not included in basic system. If you are ordering a system to be used with a treatment that requires reels, order the appropriate quantity of reels in relation to the manner in which the shade is manufactured. Refer to page 70 for installation guidelines.

SM AUTOMATIC

MOTORIZATION FOR INTERIOR WINDOW TREATMENTS

DEALER NET PRICES 2024



**MODEL 9300 ROLLER
SHADES USING
PHIFER SHEERWEAVE OR
3G MERMET FABRIC**





MODEL 9300 WITH LIGHT CONTROL ROLLER SHADES

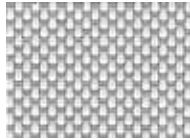
PHIFER SHEERWEAVE®
STYLE 2000/2100



P02
White



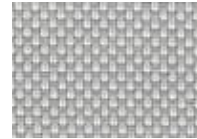
P04
White/Bone



P05
White/Platinum



Q05
Bone



Q06
Bone/Platinum



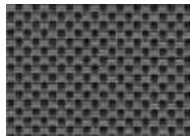
Q10
Bronze



V04
Platinum



V21
Charcoal



V22
Charcoal/Gray



V24
Charcoal/Chestnut

Fabrics and colors are subject to change without notice.

Please confirm availability prior to placing an order.

PHIFER SHEERWEAVE®
STYLE 3000



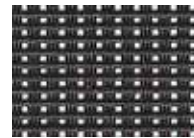
P01
Pearl White



Q01
Mushroom Sand



Q02
Custard Cream



Q04
Chocolate



Q17
Sand Dollar



Q18
Espresso



Q19
Honey Sage



V01
Pale Grey



V02
Ninja Grey



MODEL 9300 WITH LIGHT CONTROL ROLLER SHADES

PHIFER SHEERWEAVE®

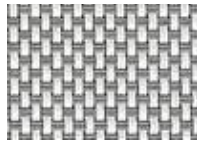
STYLE 4000/4100/4400



U58
Eco/Chalk



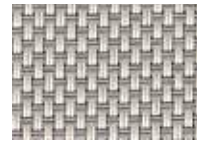
U59
Eco/Alabaster



U62
Eco/Granite



U60
Eco/ Pebblestone



U61
Eco/Greystone



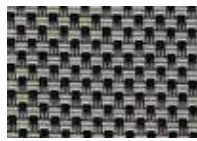
U66
Eco/Tobacco



U63
Eco/Pewter



U65
Eco/Ebony



U64
Eco/Ash

PHIFER SHEERWEAVE®

STYLE 4800



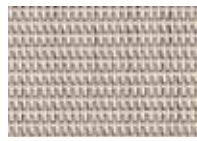
P06
Chalk



P07
Alabaster



P75
Pearl



Q97
Sand



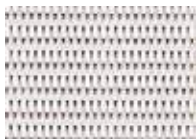
Q98
Mocha



Q99
Taupe



V10
Ebony



V16
Grey



V59
Fleece



V60
Clay



V61
Mink



V62
Flint





MODEL 9300 WITH LIGHT CONTROL OR ROOM DARKENING ROLLER SHADES

PHIFER SHEERWEAVE® STYLE 5000



P60
Bamboo Birch



Q43
Marble Sand



Q46
Bamboo Wheat



Q50
Bark Tiger Oak



Q64
Linen Taupe



Q66
Metro Platinum



Q94
Tweed Oatmeal



Q95
Tweed Buckeye



U29
Seaglass Crystal

Sheer Weave 5000
available in
additional colors



R04
Feather / Alabaster



R05
Feather / Clear



R06
Feather / Grey



Q03
Feather / Beige



V17
Jute / Fog

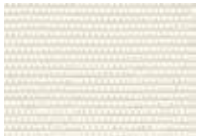


V18
Jute / Smoke

PHIFER SHEERWEAVE® STYLE 7000



P62
White



P63
Birch



P64
Sand



Q57
Wheat



Q58
Mushroom



V39
Graphite



V40
Onyx



V41
Canyon



U68
Canvas



U70
Cocoa

Fabrics and colors are subject to
change without notice.
Please confirm availability prior
to placing an order.

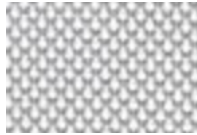


MODEL 9300 WITH LIGHT CONTROL OR ROOM DARKENING ROLLER SHADES

3G MERMET E-SCREEN AND M-SCREEN



002002
White/White



002007
White/Pearl



002020
White/Linen



007007
Pearl/Pearl



007020
Pearl/Linen



00M122
Charcoal/Grey/
Stone



030001
Charcoal/Grey



030030
Charcoal/Charcoal



030061
Charcoal/Cocoa



030071
Charcoal/Apricot

M-Screen is also available
in additional colors.

3G MERMET FLOCKE



600
Blanc



608
Chartreux



609
Loutre



618
Mississippi



623
Sahel



RTS® - RADIO TECHNOLOGY SOMFY

Radio Technology Somfy (RTS) is a secure radio control system for the residential, commercial and hospitality markets. It offers a high performance, reliable and convenient wireless solution for motorization and automation, significantly reducing the wiring requirements. Wireless controls mean fast, easy installation with minimal impact on the building structure.

With the exclusive SMA-RTS receiver, the RTS control platform now extends across the entire spectrum of our product line, and is available for every drapery, blind and shade application.



Situ 1 RTS



Situ 5 RTS



Telis 16 Channel Transmitter



Telis 1 Chronis Timer Pure



DecoFlex 1- 5 Channels Wireless Wall Switch (shown: 5 channel)



Universal Interface



Repeater



SMA-RTS Drapery Motor Receiver



Dry Contact Interface

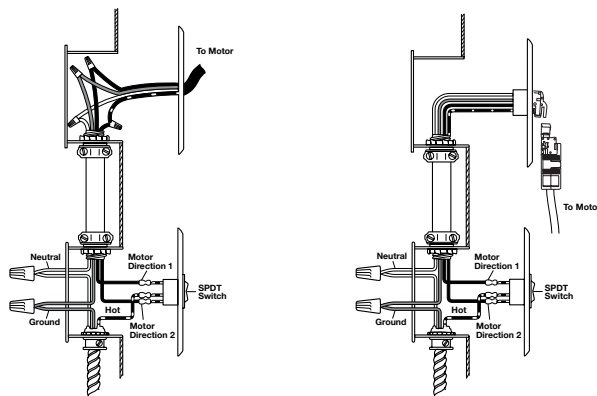


TaHoma

BASIC ELECTRICAL WIRING INFORMATION AND DIAGRAMS FOR MODELS 5100, 8000, 9600 AND 9300 SERIES

HARD WIRING (HW)

All motors come with a 4 wire 18 gauge grounded pigtail. This consists of a neutral, two directional wires, and a ground. This type of wiring is used when the motor is to be controlled by a recessed wall switch. The pigtail is connected by either hard wiring or a plug/receptacle. A single motor is controlled by an SPDT (single pole, double throw) switch. Two motors can be controlled together by a DPDT (double pole, double throw) switch. When more than two motors are to be controlled by a single switch, isolation (parallel) relays are required for each motor.

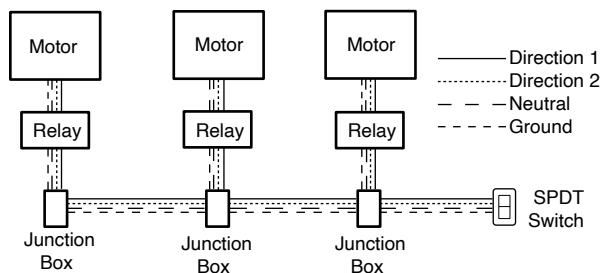


Standard Hard wiring

Hard wiring with optional plug/receptacle

HARD WIRING WITH ISOLATION (PARALLEL) RELAYS (HW/ISO)

This variation of hard wiring is used when controlling two or more motors simultaneously from a single SPDT switch. Each motor's pigtail (with relay incorporated) is connected either by hard wiring or by plug/receptacle to an individual junction box. The wiring from each junction box is connected from one to the next; with the wiring from the terminal junction box being connected to the switch.



TI-RF WIRELESS REMOTE CONTROL

A radio frequency system which can be controlled by either a hand held transmitter or wireless wall switch, or both. Transmitters control from 1 up to 16 motors, with individual, group and subgroup operation options. The TiWMT is a wireless wall switch with a removable hand held transmitter in either 1, 2 or 6 channels. The maximum range is 100'. We recommend use of a Surge Protected 110 VAC duplex outlet.

RTS-RF WIRELESS REMOTE CONTROL

Radio Technology Somfy, provides a comprehensive method for radio frequency control of motorized systems, with cross platform control system integration. Available both as stand alone, single motor RF control, or as an integrated part of a whole house automated system. We recommend use of a Surge Protected 110 VAC duplex outlet.

Electrical wiring required for either Ti-RF or RTS wireless remote control, is a standard 110 VAC duplex electrical outlet. Recommend surge protection.

CONTROL SYSTEM INTERFACE

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required.



SWITCH AND TRANSMITTER OPTIONS FOR MODELS 5100, 8000, 9600 AND 9300 SERIES

WALL SWITCHES

S-DEC2 Almond



S-DEC1 Ivory



S-DEC3 White



S-DEC5



RADIO FREQUENCY REMOTE CONTROL (TI-RF)

Ti-1



Ti-2



Ti-6



Ti-16



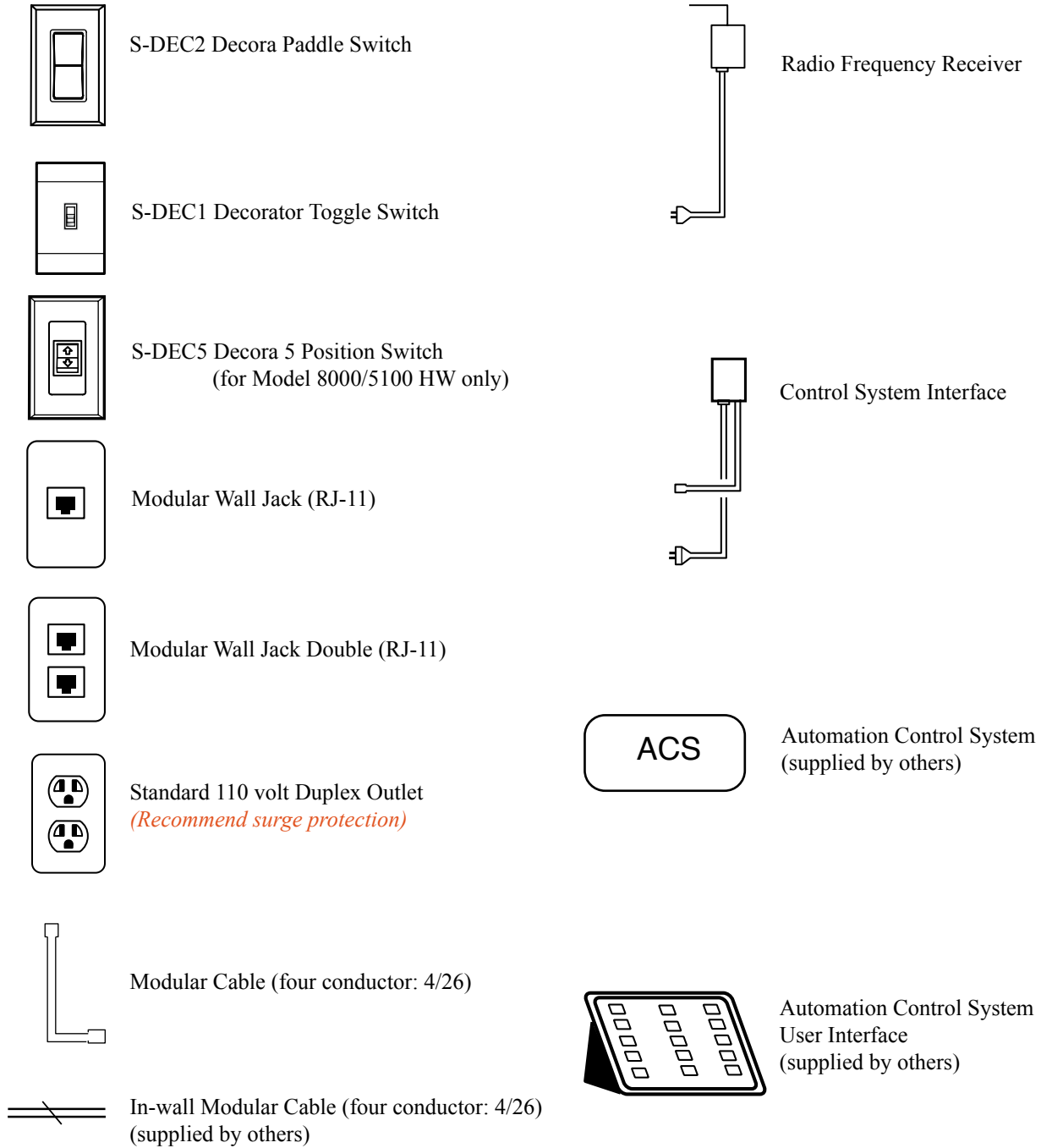
Ti-Hub
App Control



TiWMT - 1, 2, 6



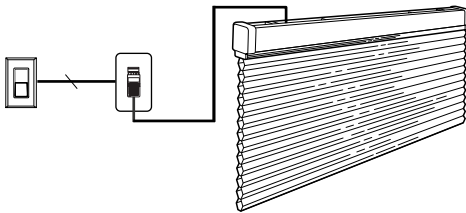
ELECTRICAL/ELECTRONIC CONTROL AND WIRING LEGEND



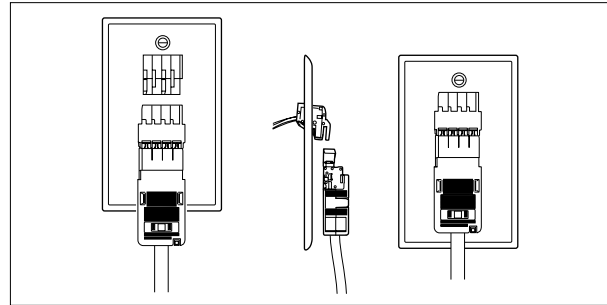
ELECTRICAL WIRING DIAGRAMS FOR MODELS 5100, 8000, 9600 AND 9300 SERIES

Recommend use of a Surge Protected 110 VAC duplex outlet.

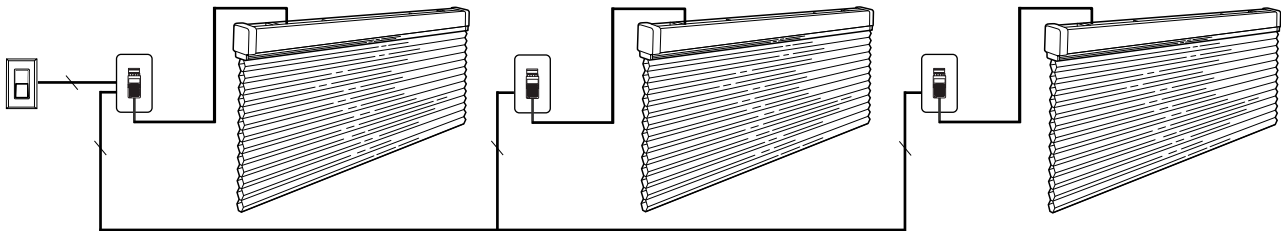
A. Hard wired Individual SPDT Control



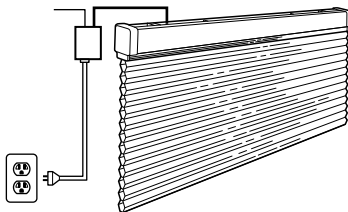
Optional Hard wiring Plug and Receptacle (PR)



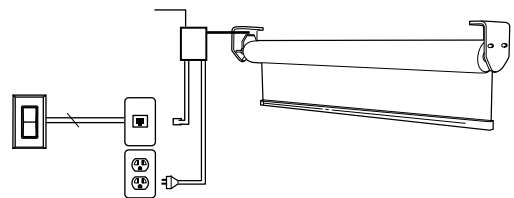
B. Hard wired Group Control using Isolation (parallel) relays



C. Individual Radio Frequency Remote Control



D. Individual Radio Frequency Remote Control with SPDT switch

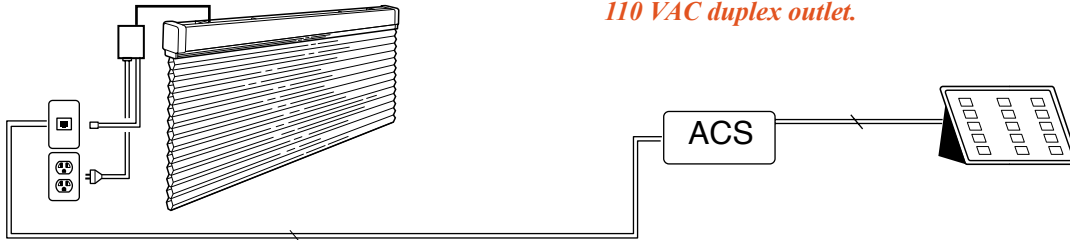


Remote control receivers, relays and low voltage interfaces, are located inside the head rails on models 9600 and 8000; and are external on models 5100 and 9300 series motors. Receiver built-in on Models 9300 RTS series motors.

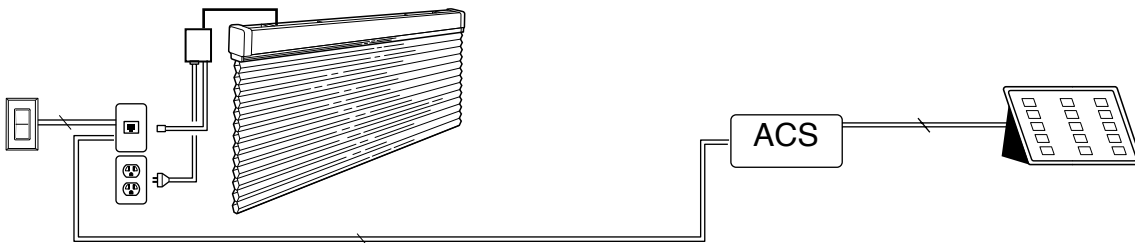
ELECTRICAL WIRING DIAGRAMS FOR MODELS 5100, 8000, 9600 AND 9300 SERIES

E. Automation Control System

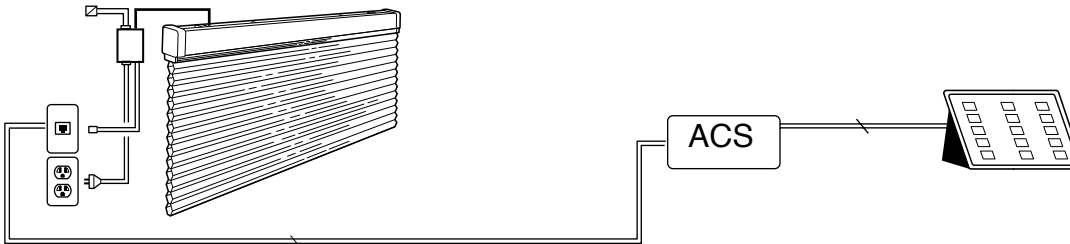
Recommend use of a Surge Protected 110 VAC duplex outlet.



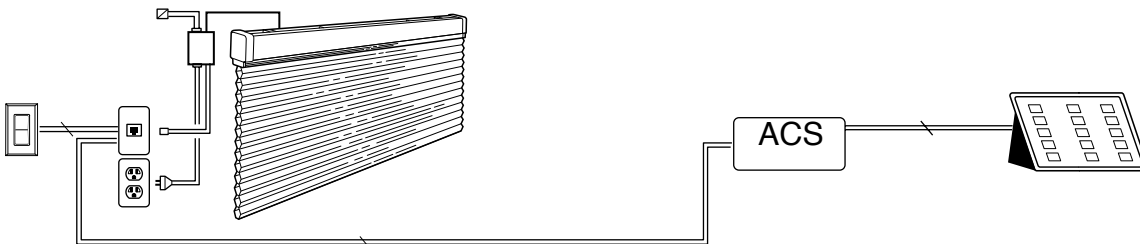
F. Automation Control System with SPDT Switch



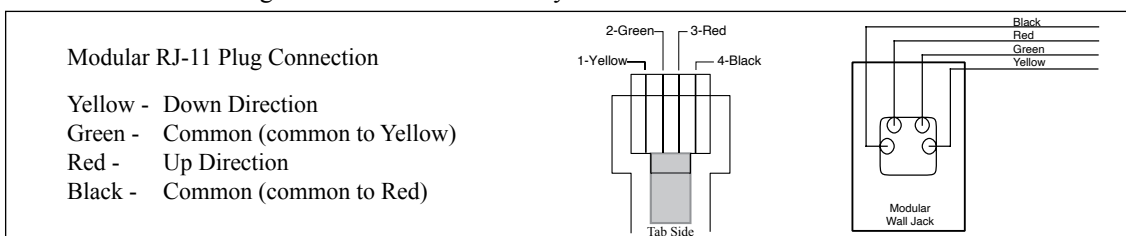
G. Automation Control System with Radio Frequency Remote Control



H. Automation Control System with Radio Frequency Remote Control and SPDT Switch



I. Modular Wiring for Automation Control System

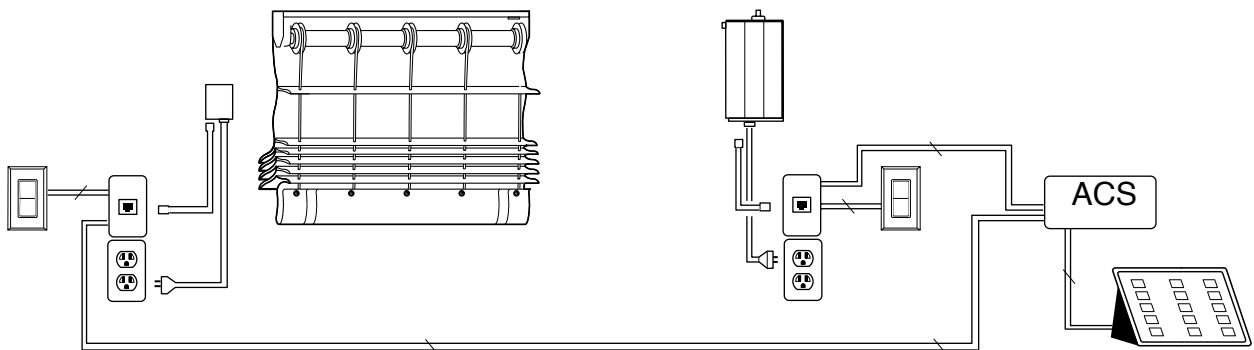


SMA-RF remote control receivers, relays and low voltage interfaces, are located inside the head rails on models 9600 and 8000; and are external on models 5100 and 9300 series motors (except 9300-RTS).

ELECTRICAL WIRING DIAGRAMS FOR MODELS 5100, 8000, 9600 AND 9300 SERIES

*Recommend use of a Surge Protected
110 VAC duplex outlet.*

J. Model 9300 series motor and Drapery Motor, with Automation Control System and SPDT Switch



IMPORTANT INFORMATION REGARDING RADIO FREQUENCY INTERFERENCE

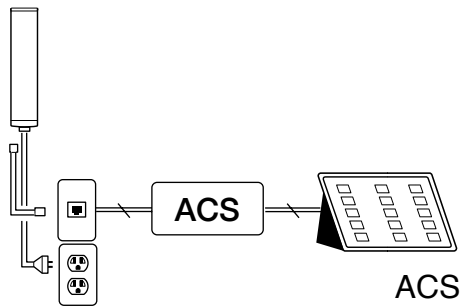
All radio frequency (RF) wireless remote control systems are subject to radio wave interference. When present, RF interference may be constant or intermittent.

According to FCC regulation, equipment used for RF wireless remote controlled window treatments, must follow these guidelines:

“Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference that may be received, including interference that may cause undesired operation.”

ELECTRICAL WIRING INFORMATION AND DIAGRAMS - A COMPARATIVE GUIDE FOR CONTROL SYSTEMS

DRAPERIES



MODEL 470, 475 AND 140-S

When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts (switching contacts with no voltage inputted) are required for open-stop-close (two button) operation.

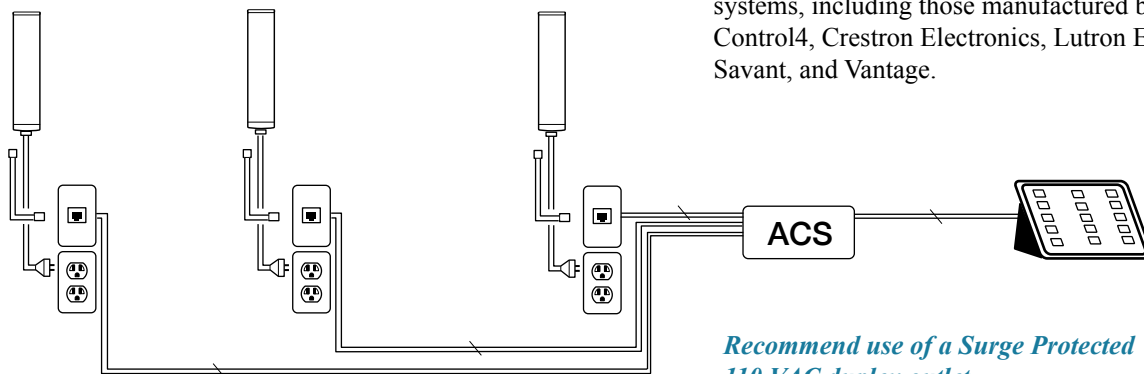
Stop Function:

For Model's 470 or 475, operation initiates with either the "Open" or "Close" contact, and a second action with either contact produces the "Stop" function.

For Model 140-S close the open/close contacts simultaneously or trigger the opposite direction contact for the "Stop" function.

All drapery motors are "Smart Motors," designed with built-in logic boards.

They are all fully compatible with all major control systems, including those manufactured by AMX, Control4, Crestron Electronics, Lutron Electronics, Savant, and Vantage.

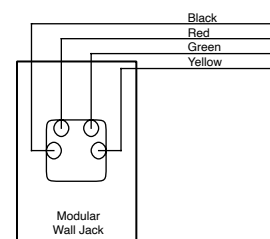
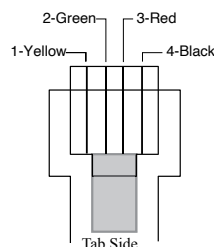


Recommend use of a Surge Protected 110 VAC duplex outlet.

Modular Wiring for Direct Drive Motors Connecting to an Automation Control System

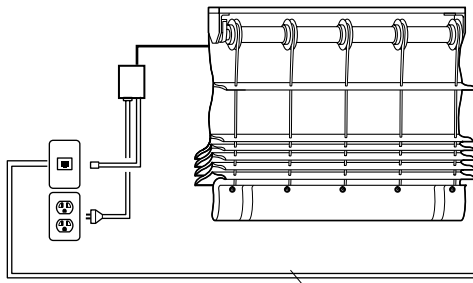
Modular RJ-11 Plug Connection

- Black - Common
- Red - Open
- Green - Stop (only used with 3 contact configuration)
- Yellow - Close

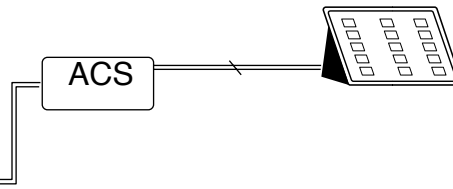


ELECTRICAL WIRING INFORMATION AND DIAGRAMS - A COMPARATIVE GUIDE FOR CONTROL SYSTEMS

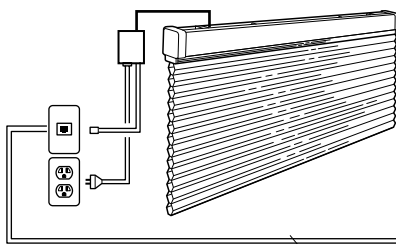
ROMAN AND ROLLER SHADES



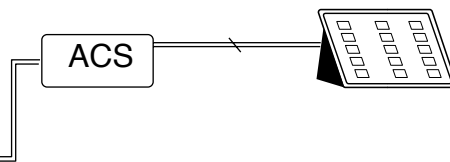
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.



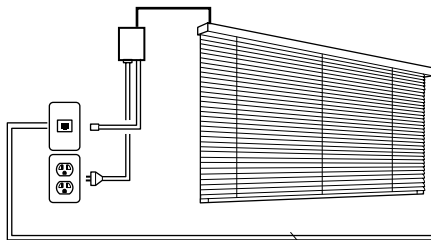
CELLULAR SHADES



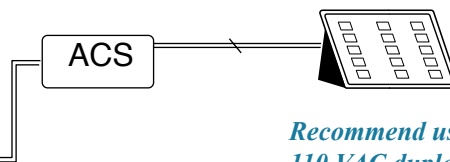
When interfacing with a home theater, multi-room control system, or whole-house automation system; two (2) momentary dry contacts are required. Operation initiates with either the “Open” or “Close” contact, and a second action with either contact produces the “Stop” function.



HORIZONTAL AND VERTICAL BLINDS

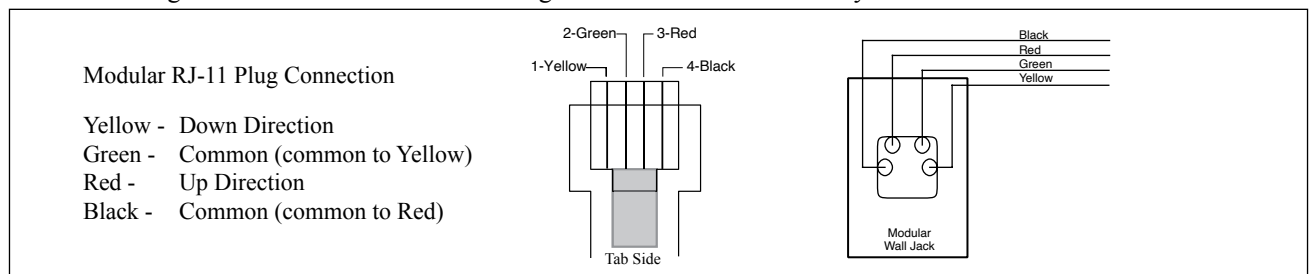


When interfacing with a home theater, multi-room control system, or whole-house automation system; two momentary dry contacts are required. “Tilting” function must have timed contacts of *less* than 1.5 seconds. “Lifting” function must have a timed contact of *more* than 1.5 seconds.



Recommend use of a Surge Protected 110 VAC duplex outlet.

Modular Wiring for Shades and Blinds Connecting to an Automation Control System



FAQ – FREQUENTLY ASKED QUESTIONS

DRAPERY MOTORS

MODEL 400 SERIES DIRECT DRIVE

Q: WHAT IS THE DIFFERENCE BETWEEN THE MODEL 470 AND 475 MOTORS?

A: *The only difference is the load capacity.*

Q: WHICH MOTOR IS BEST?

A: *The best motor is whichever is best for any specific job. The quality is the same, so simply match the motor to the actual weight of the drapery.*

Q: WHAT IS THE DIFFERENCE BETWEEN THE 30 AND 90 TRACKS?

A: *The 30 track is a single channel roller tracks for pinch pleat draperies only, where the drapery must hang below the track. The 90 is a dual channel track, where the drapery can head up (cover the track) with pinch pleated draperies; and is also available with alternative Contemporary pleating styles, often generically referred to as S-fold or Z-fold (both of which hang below the track).*

Q: DOES IT MATTER IF THE DRAPERIES DRAG ON THE FLOOR, OR RUB AGAINST THE VALANCE OR SOFFIT?

A: *Both of those conditions can adversely impact the performance of the motor, therefore, care should be taken to make sure neither condition exists.*

Q: WHICH TRACK CAN I USE FOR PINCH PLEATED DRAPERIES?

A: *30 or 90.*

Q: WHICH TRACK CAN I USE FOR S-FOLD OR Z-FOLD DRAPERIES?

A: *Only the 90.*

Q: IS THE DRAPERY STACK FOR CONTEMPORARY PLEATING STYLES LESS THAN FOR A PINCH PLEATED DRAPERY?

A: *Typically no, it isn't. We have reduced the carrier size for pinch pleated drapery to make it much more reasonable; while our "roller" carrier for S-fold or Z-fold has a greater dimension than the standard "slide" carrier - but much better performance. (refer to stacking chart on page 21)*

Q: WHICH TRACK CAN BE CURVED?

A: *Only the 90.*

Q: ARE THERE ANY CONFIGURATIONS THAT CANNOT BE CURVED?

A: *Virtually any simple curve can be fabricated. Compound curves ("S" curves) or reverse curves cannot be made.*

DEALER NET PRICES 2024

Q: WHAT IS THE MINIMUM WIDTH (FRONT TO BACK) FOR A POCKET (SOFFIT)?

A: 5" is the recommended minimum for a single track, and 10" for a double treatment.

Q: CAN THE TRACKS BE RECESSED?

A: *Yes, both the tracks can be recessed. The recess cutout for the 30 series track should be 1.25" wide by 0.875" high. There needs to be a larger cutout for the pulleys. 3" wide x 7" long x 0.875" high, for the drive pulley, and 1.375" wide x 6" long x 0.875" high for the end pulley. If a splice is used, the cutout for it needs to be 1.375" wide x 6" long x 0.875" high.*

The 90 series track can also be recessed, but the recess needs to be at least .5" wider than the track to allow for the rear side channel where the master carriers protrude and run along. The sizes of the cutout are 2" wide x 1.125" high for the track including end pulley, and 3" wide x 6" long x 1.125" for the drive pulley.

Q: CAN THE DIRECT DRIVE DRAPERY MOTORS BE HARD WIRED TO A 110VAC SWITCH?

A: *No. All 400 series drapery motors are switched with low voltage control wiring.*

Q: WHERE SHOULD THE ELECTRICAL BE INSTALLED?

A: *The objective should be to have the electrical outlet (and wall jack when applicable) near the motor, but still concealed by the stack of the draperies. Typically, placement 12"-18" below the track, and 6"-12" from the end of the track will accomplish this.*

Q: CAN THESE MOTORS BE BOTH SWITCH AND REMOTE CONTROLLED?

A: *Yes. Control options are virtually endless. Any of these motors can be controlled by any or all of the following: wall switch, radio remote control, timer, automation control system.*

DRAPERY MOTORS

MODEL 140-S BELT DRIVE

Q. WHAT IS THE MINIMUM WIDTH (FRONT TO BACK) FOR A POCKET (SOFFIT)?

A. *4" is the recommended minimum for a single track, and 8" for a double treatment.*

Q. CAN THE 140-S SYSTEM BE HARD WIRED TO A 110 VAC SWITCH?

A. *Yes. Reference the wiring diagram on page 9.*

Q. CAN THE 140-S SYSTEM USE LOW VOLTAGE CONTROL WIRING?

A. *Yes. Provide a 110 VAC outlet for the motor and low voltage wire for controls. The pin out is the same as the 400 series line.*

Q. CAN THESE MOTORS BE LOW VOLTAGE SWITCH, HARD WIRED SWITCH AND REMOTE CONTROLLED?

A. *Yes. Control options are versatile unlike any other system on the market. This motor can be controlled by any or all of the following: low voltage switch, line voltage switch, radio remote control, timer, automation control system.*

Q. CAN THE 80 TRACK BE CURVED?

A. *Check with a customer service representative for continuous curves. 90 degree bends are available.*

FAQ – FREQUENTLY ASKED QUESTIONS

MODEL 9600 SYSTEM FOR SHADES

Q: WHAT IS THE SMART SYSTEM?

A: *The SM Automatic exclusive Smart System, is a major breakthrough in technology, which prevents obstruction related lift tape failure, when the shade is lowering. Whereas, with other similar systems by other manufacturers, a simple one time obstruction can completely disable a motorized shade system, resulting in a mandatory return to the manufacturer for repair.*

Q: WHAT IS THE SMALLEST SHADE I CAN MOTORIZE?

A: *For hard wired (switch controlled) systems the minimum is 14.5". For remote controlled systems, the minimum is 18" for a radio frequency or infrared.*

Q: WHAT IS THE LARGEST SHADE I CAN MOTORIZE?

A: *We will motorize the largest shade that a manufacturer will make.*

Q: WHERE IS THE MOTOR LOCATED?

A: *The motor is encased within the SM head rail. This head rail measures 2.5" x 2.5", and in addition to the motor, contains any control electronics (remote control receiver or relays) as well as the operational assembly. The standard cellular shade head rail is attached to the bottom of the motorized head rail.*

Q: WILL THE MOTORIZED HEAD RAIL COLOR MATCH THE SHADE?

A: *There are five head rail colors (white, alabaster, black, dark brown, and gray) to choose from, but with the hundreds of shade colors available, an exact match is unlikely.*

Q: CAN I MOTORIZE AN EXISTING SHADE?

A: *Usually you can, but you will need to talk to our customer service department, and provide the size of the existing shade, as well as the exact locations of the existing lift cords, to receive a definite answer.*

Q: WHAT IS THE MINIMUM POCKET (SOFFIT) SIZE (FRONT TO BACK) FOR THE MODEL 9600?

A: *We recommend 4"-5", with 3.5" as an absolute minimum.*

Q: CAN THE MODEL 9600 BE BATTERY OPERATED?

A: *No. The Model 9600 requires 110VAC.*

Q: HOW DOES THE MODEL 9600 COMPARE TO BATTERY OR LOW VOLTAGE MOTORS?

A: *The Model 9600 is infinitely more sophisticated and heavier duty than a battery or low voltage system. With a battery or low voltage motor, there are significant restrictions in available shade sizes, while the Model 9600 can handle shades deemed both too small and too large by the others. Further, because of the heavy duty nature of the Model 9600 motor, you can expect a much longer service life than for the alternatives.*

MODEL 9300 SERIES FOR SHADES

Q: WHAT IS THE SMALLEST (WIDTH) MODEL 9300 SERIES AVAILABLE?

A: *The minimum bracket to bracket dimension is 26.5" for Model 9320 and 22.25" for Model 9314.*

Q: WHAT IS THE SMALLEST WIDTH SHADE I CAN MOTORIZE?

A: *The minimum width is 21" for hardwired motors, 22.75" for RTS motors plugging into a 110 VAC outlet, or 23.5" for rechargeable motors, all using a 1.5" diameter tube.*

Q: WHAT IS THE LARGEST (WIDTH) ROMAN STYLE SHADE THAT CAN BE MOTORIZED?

A: *The Model 9300 series will handle any shade size up to the load capacity of the specific motor. Therefore, weight, not size, is the limiting factor. A shade length of approximately 30' (using multiple center supports) is normally considered the maximum.*

Q: WHAT IS THE LARGEST ROLLER STYLE SHADE THAT CAN BE MOTORIZED?

A: *There are some limitations by fabric type, but generally, 16' (using 2.75" tubing) is considered to be the maximum width and height for a single roller shade.*

Q: HOW DO I FABRICATE A ROMAN STYLE SHADE THAT IS GOING TO BE MOTORIZED?

A: *The shade should have a 4" header (dust board) for models 9320-9340, and a 3" header for model 9314. Normally, we request that the shade have the first column of rings or grommets in no less than 2" from either edge (and 5" below dust board); with remaining columns spaced at your workroom's preference. We recommend using R-TEC Sure-Shade™ encased lift cord shroud tube by Rowley.*

Q: DOES THE R-TEC SURE SHADE™ ENCASED LIFT CORD SHROUD TUBE WORK WITH YOUR TAKE-UP REELS.

A: *Yes, the cord can be attached to our 1.5" and 2" take-up reels for even and level operation.*

Q: HOW MUCH OF A BRACKET GAP IS THERE WHEN MOTORIZING A ROLLER SHADE?

A: *The minimum gap dimension is determined by the tube used, as follows:*

1.5" tube has a 0.75" gap on motor side and 0.5" on idler side

2" tube has a 1.25" gap on motor side and 0.75" on idler side

2.5" tube has a 1.25" gap on motor side and 0.75" gap on idler side

FAQ – FREQUENTLY ASKED QUESTIONS

MODEL 9300 SERIES FOR SHADES (CONTINUED)

Q: WHAT IS THE MINIMUM SOFFIT DIMENSION FOR A ROLLER SHADE?

A: *Minimum dimensions are determined by the shade size, as follows:*

4.5" x 4.5" for a shade up to 10' wide and 8' long

5" x 5" for a shade 10'-16' wide and 8' long

6" x 6" for a shade 10'-16' wide and up to 16' long

Q: WHAT SPACING DO I USE FOR TAKE UP REELS WITH A ROMAN SHADE?

A: *While typical spacing is 10"-16", use whatever spacing you normally would for a manual shade.*

Q: DO I NEED TO KNOW WHERE THE EXACT REEL LOCATION WHEN I PLACE AN ORDER?

A: *No, since the placement of the take up reels are fully and easily adjustable on the tubing. You simply line up the reel with the columns of rings or grommets, and tighten the set screw.*

Q: WHAT IS THE MINIMUM SIZE OF THE END SECTION (MOTOR SIDE), FOR A BAY WINDOW SYSTEM?

A: *The minimum dimension is 28" from the motor bracket to the center of the angled connector.*

MODEL 8000 LIFT AND TILT HORIZONTAL BLIND SYSTEM

Q: DOES THE MODEL 8000 HAVE THE SMART SYSTEM LIKE THE MODEL 9600?

A: *Unfortunately, the Smart System is not available for the Model 8000. This is due to the tape slack necessary for a system that tilts, which defeats the sensing mechanism of the Smart System.*

Q: WHAT IS THE SMALLEST AND LARGEST SIZE LIMITS FOR MOTORIZING HORIZONTAL BLINDS?

A: *The minimum widths are 15.75" (for hard wired) and 19" (for remote controlled). The largest width is 192", but in practicality it's determined by the blind manufacturers, which typically have maximum widths of 142" for metal blinds, and 96" for wood.*

Q: IF I HAVE AN AREA GREATER THAN CAN BE COVERED BY A SINGLE BLIND, DUE TO BLIND MANUFACTURER LIMITATIONS, CAN YOU FABRICATE MULTIPLE BLINDS ON ONE HEAD RAIL?

A: *Yes, realizing that all blinds on a single Model 8000 head rail will operate simultaneously from one motor. And note that there is an additional charge for this type of fabrication.*

Q: WHAT IS THE MAXIMUM LENGTH OF MOTORIZED BLINDS?

A: *The maximum length is 16'; however, be aware that as with manual blinds, there is less than full tilt closure on any blind over approximately 10' in length.*

Q: CAN THE MODEL 8000 MOTORIZE ALL HORIZONTAL BLINDS?

A: *All blinds that are typically manufactured (as manual blinds) with lift cords passing through slat punches centered (front to back) in the slat material can be motorized. Off centered, angled slats, and those blind types with no cord punches (or unusually small punches) cannot be motorized.*

Q: SINCE THERE ARE TWO FUNCTIONS (LIFT AND TILT), WHAT KIND OF WALL SWITCH WOULD I USE?

A: *There is a special, 5-position switch (S-5 or S-5DEC) used only for the Model 8000. This switch is combination momentary (for tilting) and maintained (for lifting), which makes operation both precise and simple.*

MODEL 5100 VERTICAL BLIND SYSTEMS

Q: WHAT IS THE MAXIMUM SIZE FOR A MODEL 5100?

A: *The 5100 has a maximum width of 180" for 3.5" vanes.*

Q: WHAT TYPE OF REMOTE CONTROL SHOULD I USE WITH A MODEL 5100?

A: *Both infrared and radio frequency systems work with the Model 5100.*

Q: ARE ALL VANES COMPATIBLE WITH THE MODEL 5100?

A: *Typically, yes. However, vertical vane manufacturers do change their specifications from time to time, and we recommend that you check with our customer service on a case by case basis.*

Q: SINCE I WILL BE ORDERING THE VANES FROM A VERTICAL BLIND MANUFACTURER, WHAT DEDUCTION DO I TAKE?

A: *The head rail deduction for the 5100 is 2.5", plus floor clearance.*

MODEL 9700 MOTORIZED SHADE SYSTEMS

Q: WHAT HEADRAIL IS USED?

A: *We implement our motor into the existing shade cassette.*

Q: WHAT CONTROL OPTIONS ARE AVAILABLE?

A: *Silhouettes are RTS controlled.*

Q: WHAT BRACKETS ARE USED?

A: *Standard brackets as provided by shade manufacturer.*

FAQ – FREQUENTLY ASKED QUESTIONS

CONTROL ISSUES

Q: WHAT DOES HARD WIRED MEAN?

A: *That a 110VAC motor is to be controlled by a wall switch, and the power cord is a pigtail, which is physically “hard wired” to the wiring inside of an electrical junction box. The switch provides both power and operational control. Note that drapery motors cannot be hard wired.*

Q: IF I ORDER A REMOTE CONTROLLED MOTOR, DO I STILL NEED A POWER SOURCE?

A: *Yes, all drapery, shade and blind remote controlled systems require a 110VAC outlet. Surge protection is recommended. Only battery systems do not use power cords. Contact SM Automatic to review the power options.*

Q: WHAT IS THE DIMENSION OF THE RADIO FREQUENCY CONTROL RECEIVER BOXES?

A: *The receiver enclosure measures 4.5”x2.5”x1.25”. (note that on Models 8000 and 9600, all remote components are concealed within the head rail):*

Q: CAN MORE THAN ONE MOTOR (110VAC) BE OPERATED SIMULTANEOUSLY FROM A SINGLE WALL SWITCH?

A: *Yes, as long as isolation (parallel) relays have been ordered for each motor. Typically, the maximum number of motors that can be operated from one switch (15AMP) is ten.*

Q: CAN I HAVE MORE THAN ONE SWITCH TO CONTROL JUST ONE MOTOR (110VAC)?

A: *Yes. There are two ways to accomplish this:*

- 1. Each switch must be momentary, which means that the user must depress and hold the switch during the entire operation of the motor.*
- 2. Order each motor with a CSI (control system interface), which means that while the switches still must be momentary, the CSI electronics will read the operation necessary, and the user does not have to hold the switch after a single depression.*

Q: IF I’M USING SIX MOTORS (110VAC) ALL FROM ONE SWITCH, HOW MANY ISOLATION (PARALLEL) RELAYS DO I NEED?

A: *Six. One for each motor.*

Q: CAN I CONTROL BOTH DRAPERY MOTORS AND 110VAC SWITCHED MOTORS FROM THE SAME WALL SWITCH?

A: *Switch control requirements are incompatible between these two types of motors, however, if both a 110vac and low voltage wiring (to switch location) is present, then a CSI can be added to the drapery motor, allowing for control by Decora style switches for both types of motors.*

Q: THE CONTRACTOR FOR MY PROJECT TOLD ME THAT THE DRAPERY MOTORS ARE TO BE OPERATED BY REMOTE CONTROL, BUT I KNOW THEY'RE USING A LUTRON SYSTEM TO CONTROL ALL KINDS OF THINGS, INCLUDING THE MOTORS. DO I ORDER THE MOTORS WITH REMOTE CONTROL?

A: *Typically no, but you need to get clarification from the contractor or control system subcontractor. Usually, in these situations, the contractor is mistaken (out of lack of knowledge) in requesting that you provide remote controlled motors. The "remote control," is in actuality, one of the user interfaces provided by the control system; together with various types of wall switches, touch screens and other forms of control. The drapery motors simply "plug in" to the control system, and are treated like any other device to be controlled.*

Q: WHAT IS A LUTRON (OR CRESTRON, OR SAVANT, OR CONTROL 4, OR ...) CONTROL SYSTEM; AND HOW DOES IT EFFECT THE WAY I ORDER THE MOTORS?

A: *These are all brand names of control systems, sometimes referred to as "lighting control" or "home automation" systems. They are very versatile systems, able to do many things in many different ways. All of our motors are fully compatible with any of the aforementioned control systems, although not necessarily in the same way. Consult the wiring and control guides in this book, to understand how each of the various motors described within, are designed to be integrated into control system operation.*

Q: IF I DON'T FEEL CONFIDENT EXPLAINING THE ELECTRICAL REQUIREMENTS TO THE CONTRACTOR OR CONTROL COMPANY, CAN I HAVE THEM CALL YOU?

A: *Absolutely!*

LAST AND BEST QUESTION

Q: WHY SHOULD I BUY FROM SM AUTOMATIC?

A: *You have a choice as to which company you can buy from, and here's why SM Automatic is your best choice:*

- 1. We've been in the motorization business since 1982, and there is no company with more knowledge than SM Automatic.*
- 2. We're motorization specialists. That's what we do, and that's all that we do.*
- 3. We'll help you every single step of the way. From pre-order information, to order processing, to installation support and follow-up questions. You'll always have a knowledgeable and courteous motorization specialists to deal with.*
- 4. The best products on the market. Period.*

ORDERING INFORMATION

Before you place your order, be sure to read the following check list:

DIRECT DRIVE DRAPERY SYSTEMS

- Will the motor be on the left or right?
- Is the track a center open or one way draw?
- Which track will you use, 30 or 90 series?
- Do you require contemporary or pinch pleat carriers?
- How many pinch pleat carriers will you require (3 per foot is standard)?
- What percentage fullness will you use for contemporary pleat?
- Will the system be wall or ceiling mounted?
- Curved 90 tracks are wall or ceiling mount.
- If the track is a curved, a template will be required. Curved tracks with angles other than 90 and 135 degrees, may also require a longer delivery time.
- Do not use silicone to lubricate as it will adhere to cable and cause slippage around the drive wheel.*

MODEL 9600 LIFT SYSTEM

- The minimum width is 20". The maximum width is 192". Maximum length is 192"
- Will the electrical connection be on the left or right?
- Length of electrical cords?
- Specifically where should the power cord exit the head rail (example: through the rear, 6" from left end)?
- Will the system be wall or ceiling mounted
- Choose from the following colors for head rail color:
 - white / alabaster / black / dark brown / gray
- Specify your measurements as inside or outside mount. Net sizes are preferable.
- If being used for Roman, Austrian or balloon shades, the motor placement requires 17" spacing of lift tapes.
- Contact the factory for more detailed information.
- Ensure COM fabrication instructions are followed.

MODEL 9300 SERIES LIFT SYSTEM

- Will the motor (electrical connection) be on the left or right?
- Length of electrical cords?
- Will the system be wall or ceiling mounted?
- Does your treatment require take-up reels? And if so, how many?
- The bracket to bracket dimension on a roller shade is 2" greater than the shade itself (for 2" tubing system).
- What is the net finished width? Typical deduction for bracket to bracket width is 0.25" - 0.375" less than shade width.
- Will the shade roll off the front or back?

MODEL 5100 VERTICAL SYSTEM

- Will the motor (electrical connection) be on the left or right end of the track?
- Length of electrical cords?
- Location of 110VAC duplex receptacle (wireless remote control) or junction box (hard wired)? See page 75 for recommended placement.
- Is the track a center open or one way draw?
- Will the system be wall or ceiling mounted?
- What type and width of vanes will you be using?

ORDERING INFORMATION

MODEL 8000 HORIZONTAL LIFT AND TILT SYSTEM

- Will the motor (electrical connection) be on the left or right?
- Length of electrical cords?
- Specifically where should the power cord exit the head rail (example: through the rear, 6" from left end)?
- Will the system be wall or ceiling mounted?
- Choose from the following colors for head rail color:
 - white / alabaster / black / dark brown / gray
- What is net finished width and length?
- Ensure COM fabrication instructions are followed.

MODEL 9700 SHADE SYSTEM

- What is net finished width and length?
- Will the motor (electrical connection) be on the left or right?
- Will you be using 2", 3", or 4" Silhouette's?
- The minimum width is 18.5" with plug-in transformer for 2", 3" or 4" Silhouette's.
- The minimum width is 23.25" with rechargeable motor for 2" and 3" Silhouette's.
- The minimum width is 28" with rechargeable motor for 4" Silhouette's.
- Length of electrical cords?

SWITCHING CONTROLS (except drapery motors)

- If you are ordering more than one wireless remote controlled system, order either individual transmitters or multiple motor control transmitters. Specify infrared, SMA radio frequency or RTS remote control.
- When ordering motors for hard wiring, remember that one (1) motor may be controlled by an SPDT switch, and two (2) motors may be controlled simultaneously by a DPDT switch. If you are going to operate more than two motors from a single switch, isolation (parallel) relays are required for each motor.
- Also, when ordering motors for hard wiring, check with your electrician about ordering our plug, receptacle, and switch kits.
- When operating one motor from more than one switch, all switches must be SPDT momentary.
- What length power cord is required?
- Motors are fully compatibly with automation systems.

SWITCHING CONTROLS FOR DRAPERY MOTORS ONLY

- For low voltage switch operation, order either the S-300A or S-2DD recessed wall switches, or the S-1DD hand held or surface mount switch.
- Since these motors have built-in relays, the motors can accommodate multiple switches for one motor, one switch for several motors, or individual switches for each motor in a group, plus a switch to control the entire group.
- For radio frequency wireless remote control, select either Ti-RF, SMA-RF or RTS. Transmitter are listed on pages 21-22.
- These motors will also accommodate a modular switch in conjunction with remote control if it is desired. Motors are fully compatibly with automation systems.

ORDERING QUESTIONS?

PLEASE CALL OR FAX OUR CUSTOMER SERVICE DEPARTMENT

310-220-2600 / 800-533-3040

FAX: 310-559-9764

8:00 AM - 5:00 PM Pacific Time (Monday-Friday)

SM AUTOMATIC GENERAL INSTALLATION INSTRUCTIONS

PLEASE READ BEFORE INSTALLING

ANY

SM AUTOMATIC PRODUCT

All SM Automatic motorized window treatment systems must be installed by experienced professional installers.

SM Automatic provides heavy duty mounting brackets.

Fasteners are not included.

Appropriate fasteners must be used by the installer, as required to securely mount each window treatment system to the ceiling, wall, or window frame.

Since construction materials vary, it is up to the installer to determine which type of fasteners are required.

Since motorized systems are generally heavier than manual systems, extra consideration must be taken when determining the type and quantity of fasteners needed.

Wood backing is recommended for proper and secure attachment of mounting brackets to drywall or plaster walls and ceilings.

SM Automatic supplies motorized systems exclusively to the window covering trade only, and assumes no responsibility for installation.

It is the responsibility of the installer to determine and provide proper fasteners to accommodate the weight and security of the product.

Recommend use of a Surge Protected 110 VAC duplex outlet.

Installers should not hesitate to call SM Automatic with any questions or concerns regarding installation or adjustment of any of our products.

INSTALLATION INFORMATION MODEL 400 SERIES DIRECT DRIVE MOTORS

INSTALLATION

SM Automatic Model 400 series direct drive drapery track systems, using our 30 and 90 series tracks, are installed using ceiling or wall mounting brackets, or by screwing directly thru the track. When screwing directly thru the track, flat head countersunk phillips screws must be used, in order to avoid obstructing the movement of the track components.

Brackets should be installed at approximately 8" from the ends, and intermittently, at least 36" on center. For ceiling mounting, a screw should be installed thru the end flange of the motor drive pulley also.

It is highly recommended that you attach the brackets onto the track system before installation, to familiarize yourself with the operation of the brackets.

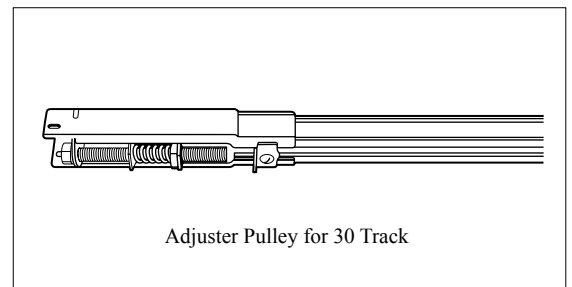
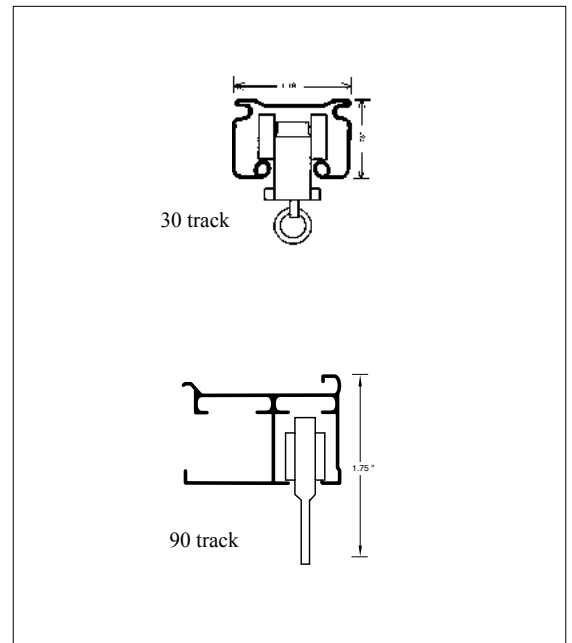
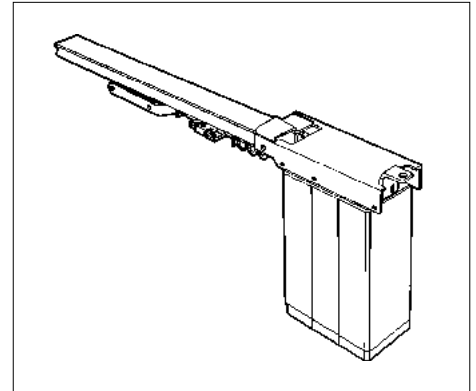
The maximum size for a single unspliced track is 20'. Tracks over 20' must be spliced. Other considerations for splicing are due to shipping, access, and handling issues. If a track is spliced, reassemble it before installation, taking great care to assure that the cable does not become twisted inside the track. It is also crucial to properly install splice brackets on the 90 track. The splice must be installed perfectly so it joins the tracks together, assuring that there is no gap between the tracks.

FASTENERS ARE NOT INCLUDED.

PLEASE REFER TO GENERAL INSTALLATION INSTRUCTIONS ON PAGE 70.

Attaching the Motor: Model 400 series drapery motors are attached to the direct drive track system drive pulleys as follows, after the track has been installed:

1. Align motor shaft with shaft hole in drive pulley wheel, and simultaneously align motor lock-pins with keyhole slots in drive pulley housing.
2. Insert shaft into drive pulley wheel, insert lock-pins into keyhole slots, twist-lock motor into alignment with pulley housing.
3. Slide locking plate all the way up so it is in place to secure motor to drive pulley, and tighten thumb screw. Test that the motor is secure before releasing or operating.



INSTALLATION INFORMATION MODEL 400 SERIES DIRECT DRIVE MOTORS

INSTALLATION

Minor adjustment of the cable tensioning might be required. This is achieved by tightening or loosening the tensioning adjuster bolt. On the 90 series tracks, this adjuster is located on the master carrier. On the 30 and 40 series tracks, this adjuster is located in the end pulley housing.

Set the motor limits by pressing the open button and allow the drapery to open completely. Next, press the close button. If the drapery stops prematurely, press the close button two times. The limits are now set. If the motor continues to stop prematurely, the tension is too tight. To loosen the tension, turn the tensioning adjuster bolt counter clockwise, a little bit at a time, until the motor operates properly.

If the motor keeps running after reaching the fully open or closed position, the tension is too loose. To tighten the tension, turn the tensioning adjuster bolt clockwise, a little bit at a time, until the motor operates properly.

There are no adjustments required to the motor itself. Any necessary adjustments are done at the factory and should not be attempted by anyone other than a factory technician.

Motors are controlled as follows: SM Automatic switch, SM Automatic remote control systems, or other authorized home automation systems, using momentary dry contacts. Wiring required from controllers is 26 AWG / 4 conductor (26/4) low voltage modular cable, and is attached to the motor control port with RJ-11 type plug. All controllers and control accessories are supplied separately.

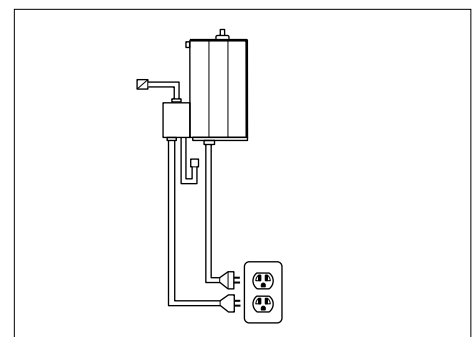
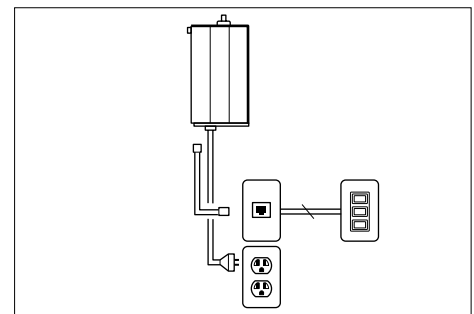
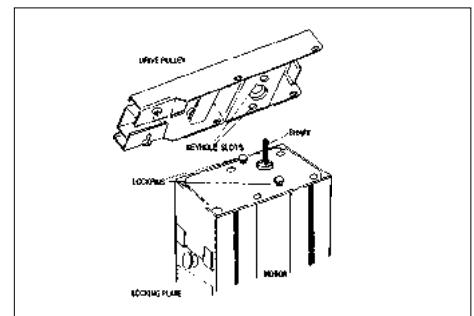
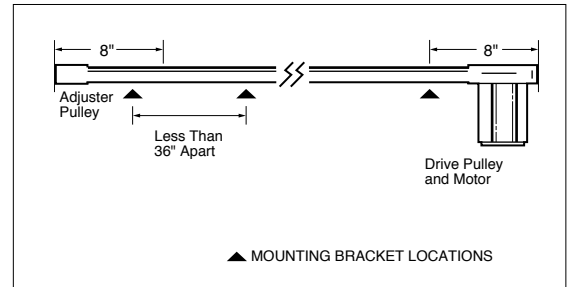
Do not use silicone to lubricate as it will adhere to cable and cause slippage around the drive wheel.

ELECTRICAL

Electrical wiring and attachment must conform to local building and electrical codes.

A live (non-switched) 110VAC duplex outlet receptacle is required for power. Location of the outlet should be determined according to the conditions of the window & wall. The outlet may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the outlet is as close to the end of the drapery track system as possible. It should be installed to be clear of the track and motor and in a location so it does not interfere with the operation of the drapery track system. 12" below the end of the track is recommended.



INSTALLATION INFORMATION MODEL 9600

INSTALLATION

Model 9600 installation brackets are cam type universal mounting brackets. (SMA Type F Mounting Brackets) They may be either wall or ceiling mounted.

The system head rail is secured in this bracket by a cam that is twist locked in place. Extra precautions must be taken to assure that the cam supports both flanges of the head rail.

The brackets must be located in such a manner in order to clear the motor and internal electrical and lifting components.

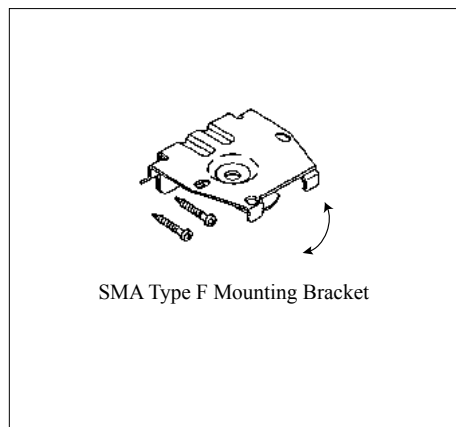
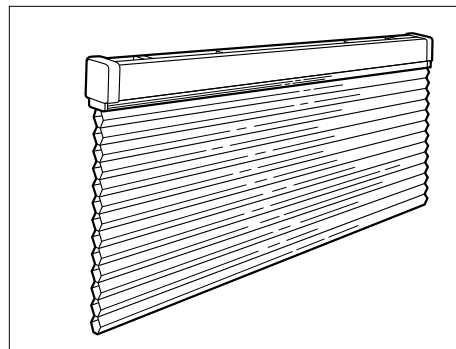
It is highly recommended that you attach a bracket onto the head rail before installation, to familiarize yourself with the operation of the bracket.

Spacing should not exceed 36" on center. SM Automatic supplies enough brackets with each system to meet this criteria.

FASTENERS ARE NOT INCLUDED.

PLEASE REFER TO GENERAL INSTALLATION INSTRUCTIONS ON PAGE 70.

Plastic straps are factory attached to cellular & pleated style shade systems, to immobilize the shade during shipping and handling. They should be removed after installation is complete, but definitely prior to operation.



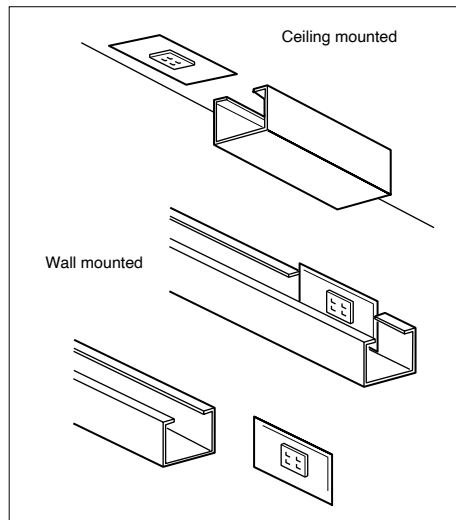
ELECTRICAL

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the head rail as possible. It should be installed to be clear of the head rail and in a location so it does not interfere with the operation of the shade.



INSTALLATION INFORMATION MODEL 9300 SERIES

INSTALLATION

Model 9300 installation brackets are universal mounting brackets. They may be either wall or ceiling mounted.

The system tube is secured in this bracket by first inserting the idler shaft into the idler bracket. Then insert the motor shaft into the motor bracket and secure it with the cotter pin provided.

Extra precautions must be taken to assure that the brackets are secure and spaced appropriately so there is no slack or movement of the tube system between the brackets. The system needs to be fitted within the brackets perfectly tight.

This is extremely important to avoid the possibility of the idler end slipping out of the idler bracket. Extra care should be taken during the installation process as well.

It is highly recommended that you attach the brackets onto the motorized tube system before installation, to familiarize yourself with the operation of the brackets.

FASTENERS ARE NOT INCLUDED.

PLEASE REFER TO GENERAL INSTALLATION INSTRUCTIONS ON PAGE 70.

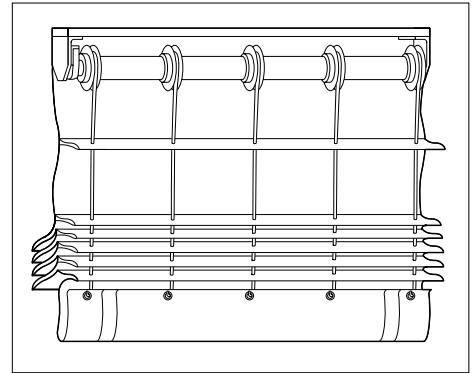
ELECTRICAL

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

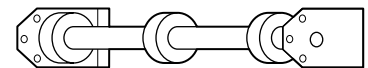
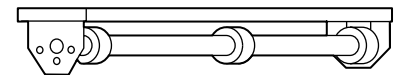
Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

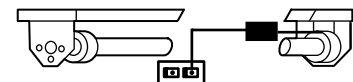
The ideal location of the receptacle is as close to the end of the shade system as possible. It should be installed to be clear of the tube and in a location so it does not interfere with the operation of the shade system.



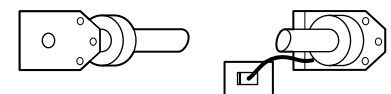
Ceiling Mount



Wall Mount



Wireless Remote Receptacle



Hardwire

INSTALLATION INFORMATION MODEL 5100

INSTALLATION

Model 5100 vertical blind track system may be installed either as a direct ceiling mount or wall mounted.

For direct ceiling mount, secure by screwing directly thru the center channel of the track.

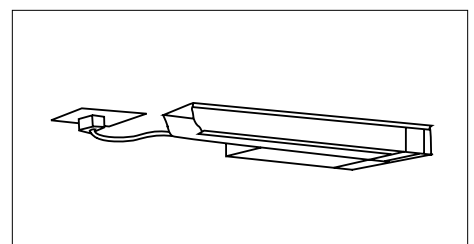
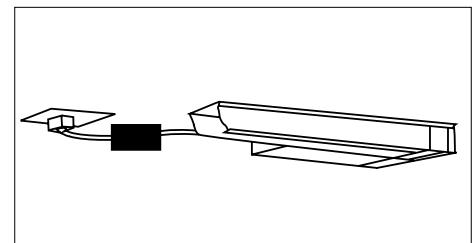
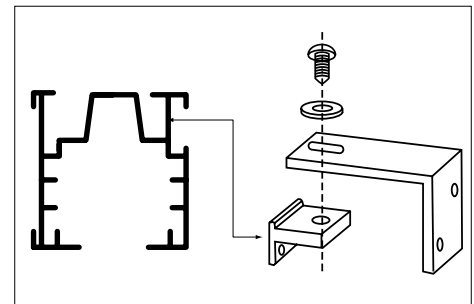
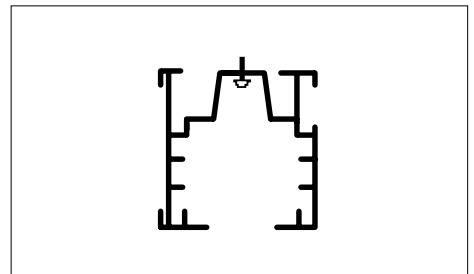
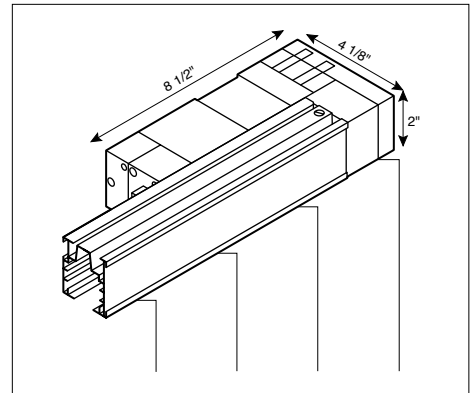
Spacing should not exceed 36" on center. Ceiling type brackets are not available for the Model 5100.

Wall brackets are available. Spacing should not exceed 36" on center.

It is highly recommended that you attach the wall brackets onto the motorized track system before installation, to familiarize yourself with the operation of the brackets.

FASTENERS ARE NOT INCLUDED.

PLEASE REFER TO GENERAL INSTALLATION INSTRUCTIONS ON PAGE 70.



ELECTRICAL

Electrical wiring and attachment must conform to local building and electrical codes.

Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the track system as possible.

It should be installed to be clear of the motor and in a location so it does not interfere with the operation of the vertical blind track system.

INSTALLATION INFORMATION MODEL 8000

INSTALLATION

Model 8000 installation brackets are cam type universal mounting brackets. (SMA Type F Mounting Brackets) They may be either wall or ceiling mounted.

The system head rail is secured in this bracket by a cam that is twist locked in place. Extra precautions must be taken to assure that the cam supports both flanges of the head rail.

The brackets must be located in such a manner in order to clear the motor and internal electrical and lifting components.

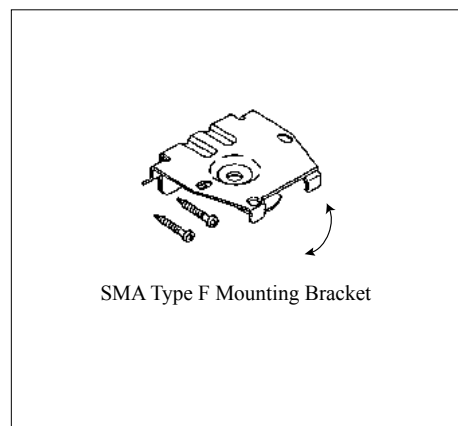
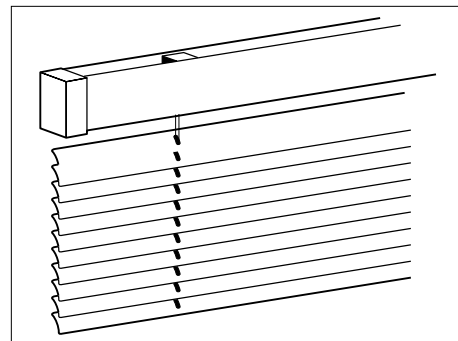
It is highly recommended that you attach a bracket onto the head rail before installation, to familiarize yourself with the operation of the bracket.

Spacing should not exceed 36" on center. SM Automatic supplies enough brackets with each system to meet this criteria.

FASTENERS ARE NOT INCLUDED.

PLEASE REFER TO GENERAL INSTALLATION INSTRUCTIONS ON PAGE 70.

Plastic straps are factory attached to the blind slats to immobilize the blind during shipping and handling. They should be removed after installation is complete, but definitely prior to operation.



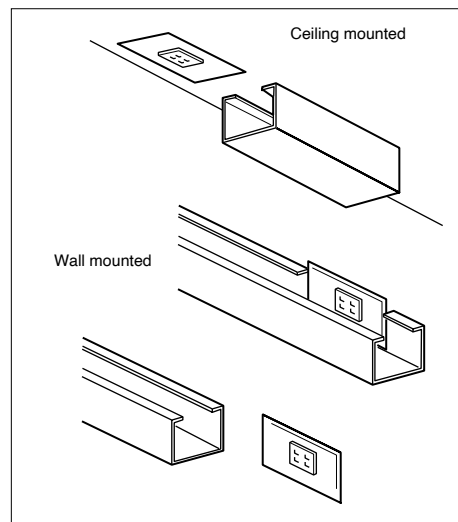
ELECTRICAL

Electrical wiring and attachment must conform to local building and electrical codes. Hard wiring for control by a 110VAC SPDT wall switch, or other 110VAC controller, must be done by a licensed electrician.

Location of the 110VAC outlet receptacle or junction box should be determined according to the conditions of the window & wall.

The outlet or j-box may be installed in either the ceiling, wall, header, jamb, or any area determined by the electrician.

The ideal location of the receptacle is as close to the end of the head rail as possible. It should be installed to be clear of the head rail and in a location so it does not interfere with the operation of the blind.



TERMS AND CONDITIONS OF SALE

SM Automatic supplies products exclusively to the interior window treatment trade industry, including designers, architects, contractors, and subcontractors. Proper installation of our products is the exclusive responsibility of a professional trade company.

Motorized systems may be heavier than manual systems, and therefore can require different installation techniques and/or materials for proper installation.

In order to ensure proper installation of our products, SM Automatic recommends that installation be performed by an experienced, professional installer, with knowledge of the current industry installation standards and guidelines.

SM Automatic makes no guarantees or warranties, either expressed or implied, regarding the installation of our products.

I. PRICES

Prices do not include any federal, state or local taxes. Prices and specifications are subject to change without notice. Written quotations expire 30 days from the date of the quotation, unless otherwise specified. Packing and crating charges are additional.

II. TERMS

All initial orders from new accounts are either to be paid in advance or COD. After credit has been approved by SM Automatic, terms are net 30 days. Credit cards (American Express, Visa and MasterCard) are also accepted. A minimum charge of \$50.00 will be imposed upon dishonor of any check tendered in payment of goods purchased from SM Automatic. Should additional costs and expenses (including attorney's fees) be incurred as a result of any such dishonor, this charge shall be increased accordingly.

III. DELIVERY

All shipments are FOB Hawthorne, California. Seller shall select method of transportation if not specified on buyer's purchase order. Claims for shortages or discrepancies must be made within three (3) days from receipt of shipment. Claims for loss or damaged shipments should be reported immediately to the carrier. SM Automatic is not responsible for loss or damage by carrier.

IV. RETURNS

No returns will be accepted unless a return authorization number has been requested and received from SM Automatic. The return shipment is to be freight prepaid by the Buyer, and under no circumstances shall the Buyer deduct the value of the returned merchandise from any remittance due. Returned merchandise is subject to inspection and a minimum restocking fee of 25%.

V. ERRORS

Typographical, clerical errors, or omissions in quotations are subject to correction.

VI. DIMENSIONS

The dimensions and measurements in our printed documents are approximate at the date of publication and may be subject to change.

TERMS AND CONDITIONS OF SALE

VII. WARRANTY

SM Automatic warrants its motors and motorized systems to be free from defects in material and workmanship for a period of three (3) years from the date of purchase.

Should any failure to conform with this warranty appear during the specified period under normal and proper use and provided the equipment or part has been properly stored, installed and maintained with due regard to any directives, instructions and operating procedures provided by the manufacturer, SM Automatic shall, upon presentation of proof of purchase, correct such nonconformity either by repair or replacement, FOB factory, at its option, of the nonconforming part.

SM Automatic shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of, or the inability to use, the equipment.

The foregoing warranty is exclusive and in lieu of all other warranties of quality, whether written, oral or implied, and all other warranty of merchantability or fitness for a particular purpose are hereby disclaimed.

The following are exclusions from warranty:

- (i) If usage, adaptation or installation are not in accordance with our operating instructions, as well as industry installation standards.
- (ii) If the product has been opened, dismantled or returned with clear evidence of abuse or other damage.
- (iii) If our written specifications are not properly applied by the Buyer when selecting the equipment.
- (iv) If our written instructions for installation and wiring of the electrical connections have not been followed.
- (v) If our equipment has been used to perform functions other than the functions it was designed to handle, namely motorizing interior window coverings.
- (vi) If our equipment has been exposed to extreme climatic conditions such as rain, excessive moisture, salt air, etc.

Equipment not manufactured by SM Automatic is sold and warranted only to the extent and in the manner warranted to SM Automatic by the manufacturer and only to the extent that SM Automatic is able to enforce such warranty.

All costs related to installation and reinstallation of the equipment covered by this warranty are the responsibility of the Buyer. SM Automatic will not be responsible for any consequential damages during or following installation procedures.

If the Buyer resales any SM Automatic equipment to another Buyer, it shall include all of the terms and provisions of this warranty in such resale. SM Automatic's responsibility to any such third party shall be no greater than their responsibility under the warranty to the original Buyer.