

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 antii-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. Fully compatible with Bond Controls.

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:

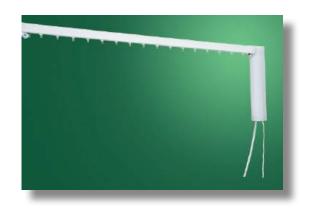
- Built-in RF remote control receiver.
- Smart Home App Control.
- Bond Bridge Pro and Sidekick Compatible.
- Motorized drapery track with ultra-quiet operation (less than 35 dB).
- Drapery can head up to cover track.
- Manual operation override.
- Automatically identifies and sets Open and Stop operation 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.



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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 | 100 lbs | Control board operating current | 5 mA |
| (One Way Draw) | | - Amperage | 1.4 A |
| Maximum Drapery Weight | 140 lbs | Operating speed | 6 in/sec |
| (Center Open) | | Rated current | 0.8 N.m |
| Maximum Track Length | 36 ft. | Ambient temperature | 0 to 50°C (non-condensing) |
| Rated power voltage | 100 VAC to 240 VAC | Time rating | 4 min. (continuous operation) |
| Cycle | 50/60 Hz | Noise level | 35 dB (in default motor speed) |

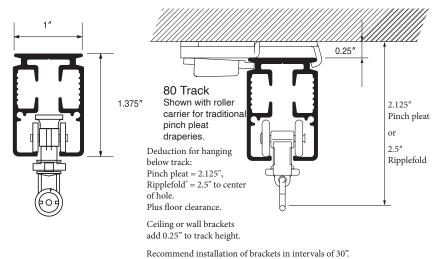
BELT DRIVE DRAPERY MOTOR

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





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MODEL 140-S BELT DRIVE DRAPERY SYSTEM





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BOND WIRERLESS REMOTE CONTROL AND SMART HOME INTEGRATION (TI-RF AND RTS)



SIDEKICK FOR SHADES GEN 3 UNIVERSAL SHADE REMOTE CONTROL

- Works with multiple motor technologies
- 5- or 1-channel interchangeable control
- · Pairs directly with the shade
- · Wireless control via RF
- Estimated 10-year battery life
- Flush mount: Install with or without a workbox
- Provides state feedback to the Bond Bridge Pro
- Set up shade limits
- · No manufacturer remote required
- Supports the new Keypad Mode
- * Battery life is estimated based on using a sidekick to cycle a shade once a day.



BOND BRIDGE

- Works with Alexa, Google Home, and SmartThings
- Remote Control via Bond Home app
- · Works with iPhone or Android
- · No installation needed
- · Smart home functionality without breaking the bank
- Works with 2.4GHz Wi-Fi networks



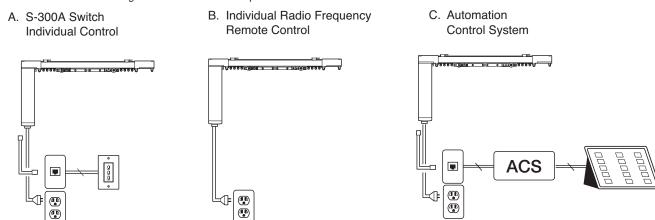
BOND BRIDGE PRO

- Ethernet port & PoE technology
- Smart home integrations
- Ceiling and wall mount
- Works with Alexa, Google Home, and SmartThings
- Remote Control with App
- · Works with iPhone or Android
- No installation needed
- Smart home functionality without breaking the bank

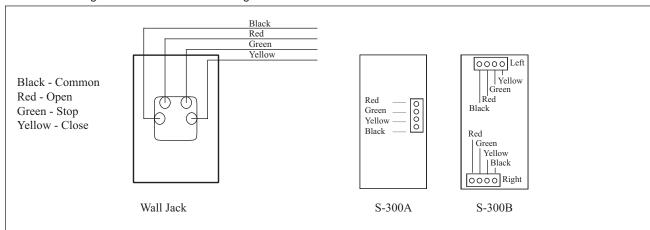


MODEL 140-S BELT DRIVE DRAPERY MOTOR ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

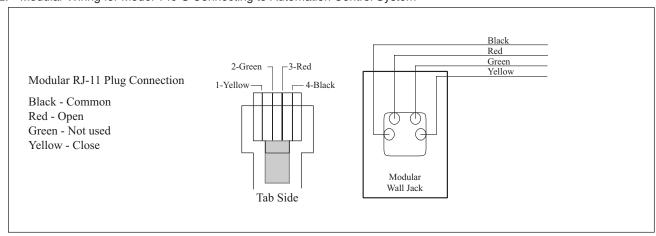
Recommend use of a Surge Protected 110 VAC duplex outlet.



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

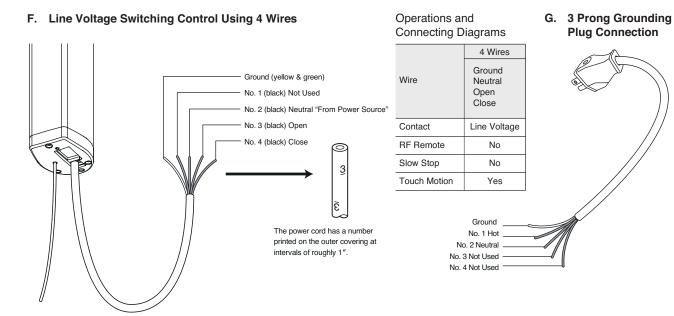


E. Modular Wiring for Model 140-S Connecting to Automation Control System



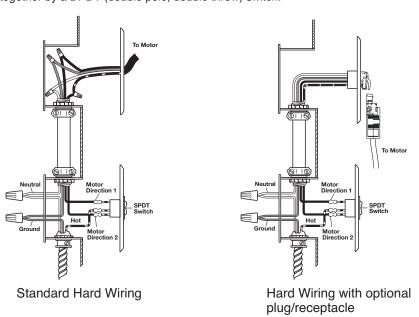


MODEL 140-S BELT DRIVE DRAPERY MOTOR ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE



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.





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400 SERIES DRAPERY MOTORS



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

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.

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.



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

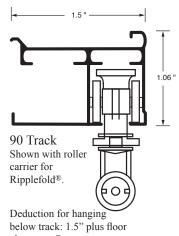
DIRECT DRIVE ROLLER TRACKS

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.

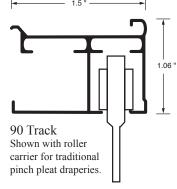
The aluminum track has a white finish. The maximum length of track without splice: 250". Available as either ceiling or wall mount.



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



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

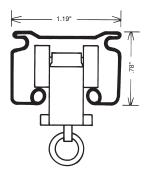
The 30-VQ (Very Quiet) track is a breakthrough in combining noise reduction, durability and strength. Made from Hishimetal, the 30-VQ is formed by bonding high quality steel with layers of PVC, and coating with acrylic resin.

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

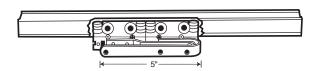


Cross sections of tracks shown actual size

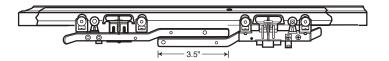
ROLLER TRACK MASTER CARRIERS

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.



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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.
- 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)

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.

RIPPLEFOLD SNAPS SPACING 1^{st} to 2^{nd} snap on master carrier

2.625" on center

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

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.



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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)

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.



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.

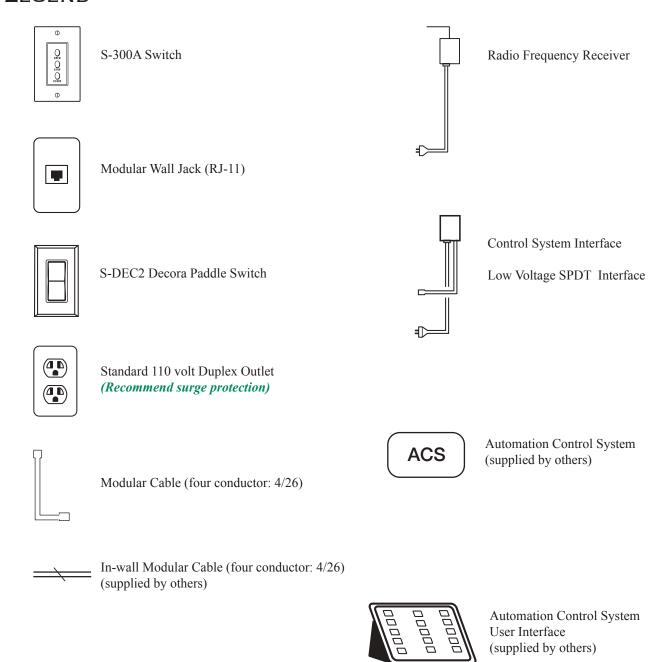
All drapery motors are "Smart Motors", designed with built-in logic boards. They are all fully compatible with all major control systems, including those manufactured by AMX, Control4, Crestron Electronics, Lutron Electronics, Savant, and Vantage Controls.





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ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION LEGEND





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DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

SWITCHES

S-300A White



S-300A Ivory



S-300B White



RADIO FREQUENCY REMOTE

S-300B Ivory



S-1DD



RADIO FREQUENCY REMOTE CONTROL (TI-RF)

TiWMT - 1, 2, 6



CONTROL (SMA-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





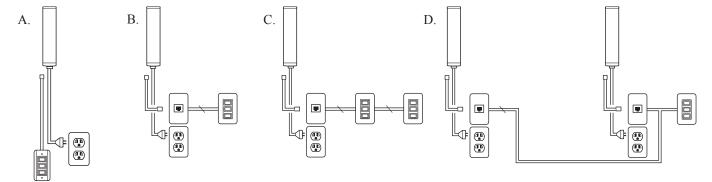
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DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

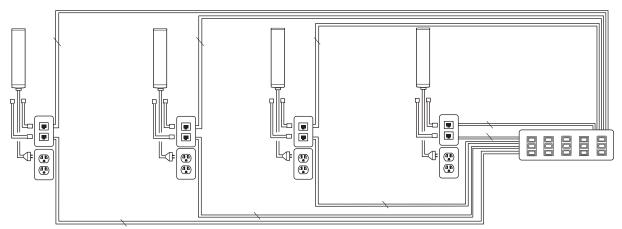
Recommend use of a Surge Protected 110 VAC duplex outlet.

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

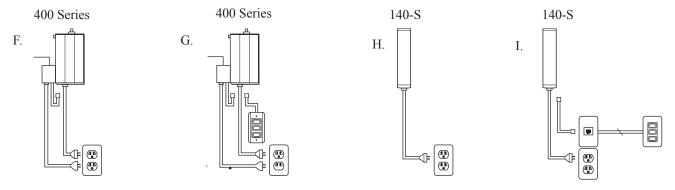
- B. S-300A Switch Individual Control
- D. S-300A Switch Group Control



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



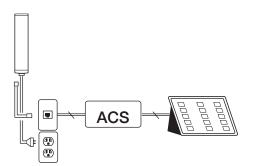


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DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

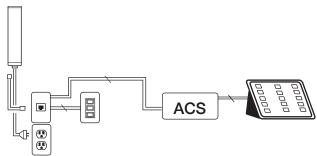
K.

J. Automation Control System

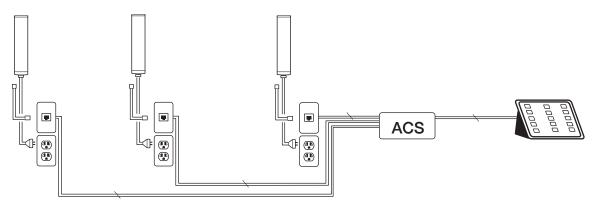


Recommend use of a Surge Protected 110 VAC duplex outlet.

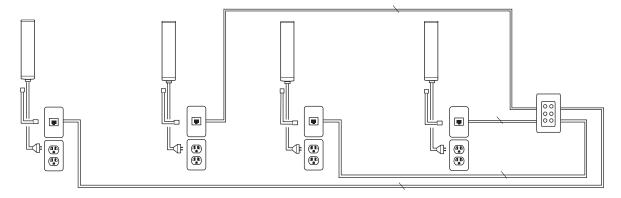
Automation Control System with Individual Remote Control and S-300A Switch



L. Individual and Group Automation Control System



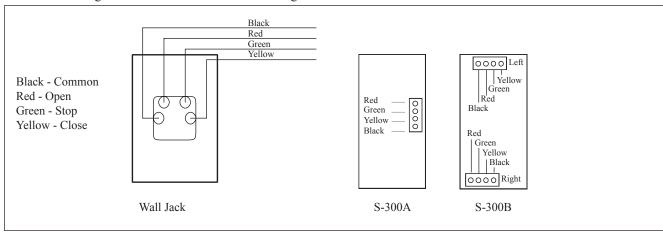
M. Double Group Switch Control with S-300B Switch



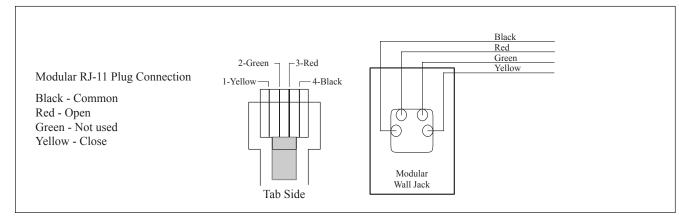


DRAPERY MOTORS ELECTRICAL/ELECTRONIC CONTROL AND WIRING INFORMATION GUIDE

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





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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.

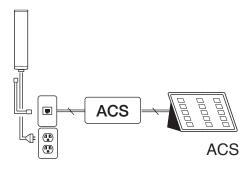




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ELECTRICAL WIRING INFORMATION AND DIAGRAMS A COMPARATIVE GUIDE FOR CONTROL SYSTEMS

DRAPERIES



MODEL 475, 140-S OR PROGRESS 25/50/80

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

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

For Progress 25/50/80 Ti-RF, close the open/close contacts simultaneously 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.



ACS

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

