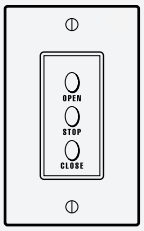
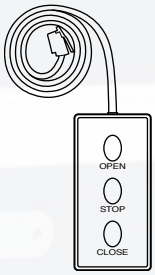
Drapery Motors Electrical/Electronic Control Information

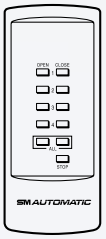
Low Voltage Modular Switch (recessed wall installation)
Available for drapery motors only. The switch conforms to a single gang junction box. Low voltage switching connections are made from the switching port of the motor to a modular wall RJ-11 jack (phone type) using a modular cable; then inside the wall to the junction box containing the switch. *The modular cable is nonstandard, and should be supplied by SM Automatic (see page 13).* 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.



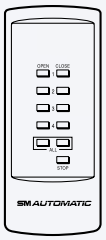
Low Voltage Modular Switch (hand held or surface mount)
Switch is supplied with a 12 foot, low voltage cable, that plugs into a switching port of the motor. It's recommended that when a motor is to be connected to an automation control system (Crestron, Lutron, Vantage etc.), that an S-1DD is ordered as a means of testing motor function outside of the control system.



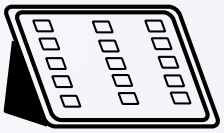
Wireless Remote Control (WRC) - **Radio Frequency** (RF)
A radio frequency system which is controlled by a hand-held transmitter. It is omnidirectional, digital coded, and has a maximum range of 100'. Transmitters are available to control from 1-24 motors, with individual, group and subgroup operation options.



Wireless Remote Control (WRC) **- Infrared** (IR)
The system is directional, digital coded and has a maximum range of 50 feet. Infrared systems are not subject to possible interference from outside sources, as is sometimes the case with radio frequency controls, but must have line of sight between the transmitter and sensor. A transmitter is available to control from 1-24 motors, with individual, group and subgroup operation options.

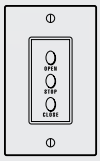


Control System
When interfacing with a home theater, multi-room control system, or whole-house automation system; three (3) momentary dry contacts (switching contacts with no voltage inputted) are required for full featured, open-stop-close operation. Although, two (2) momentary dry contacts may be utilized to provide open-close functions only.

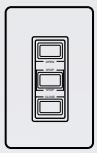


All drapery motors are *"Smart Motors,"* designed with built-in logic boards. They are all fully compatible with all major control systems, including those manufactured by AMX Corporation, Crestron Electronics, LiteTouch, Lutron Electronics, Phast, and Vantage Controls.

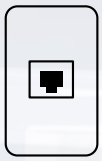
Electrical/Electronic Control and Wiring Information Legend



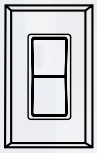
S-300A Switch



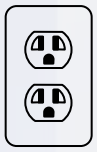
S-2DD Switch



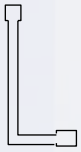
Modular Wall Jack (RJ-11)



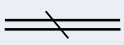
S-DEC2 Decora Paddle Switch



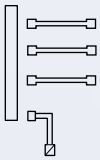
Standard 110 volt Duplex Outlet



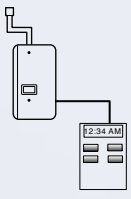
Modular Cable (four conductor: 4/26)



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

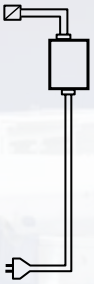


Splitter with Modular Cables and
Infrared Receiving Eye

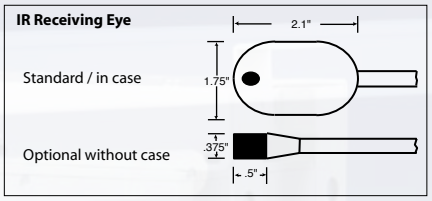


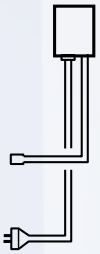
Timer Control

Radio Frequency Receiver



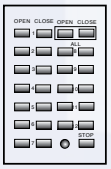
Infrared Receiver





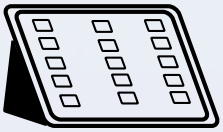
Control System Interface

Low Voltage SPDT Interface



Infrared or Radio Frequency
Receiver Keypad

Automation Control System
(supplied by others)

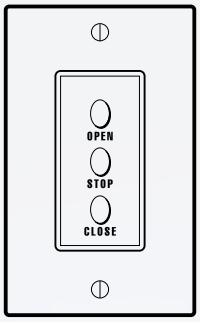


Automation Control System
User Interface
(supplied by others)

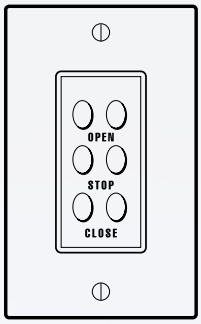
Drapery Motors Electrical/Electronic Control and Wiring Information Guide

Switches

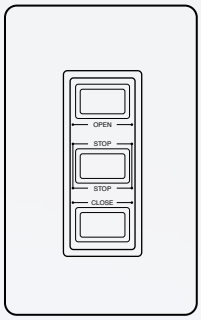
S-300A



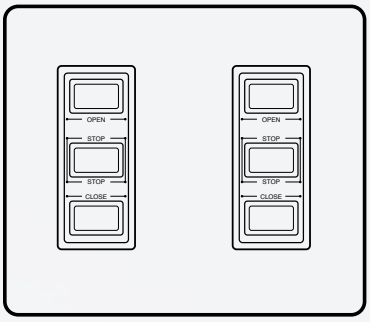
S-300B



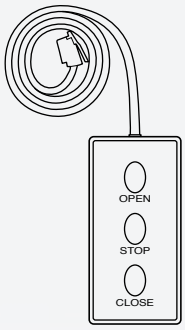
S-2DD



S-2DD2



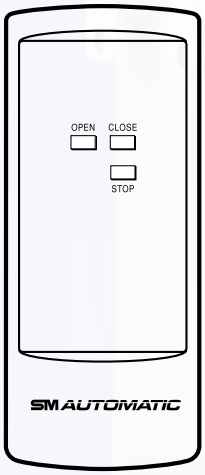
S-1DD



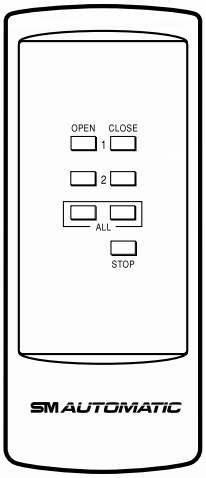
Radio Frequency and Infrared Remote Control

Custom transmitter configurations are available

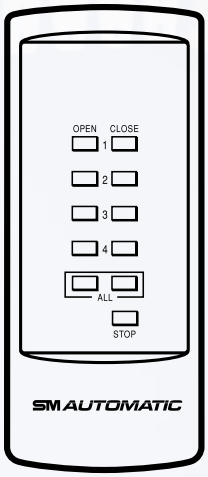
RF/IR-T1



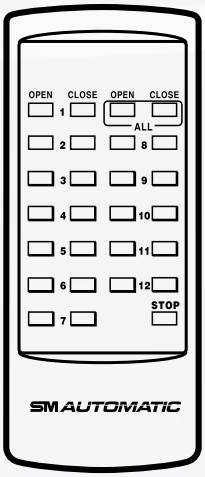
RF/IR-T2



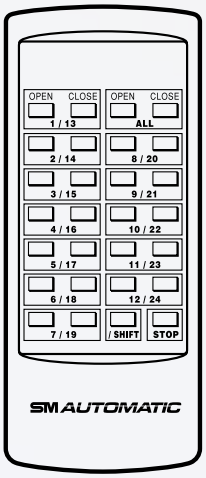
RF/IR-T4



RF/IR-T12



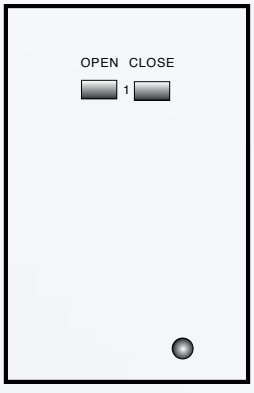
RF/IR-T24



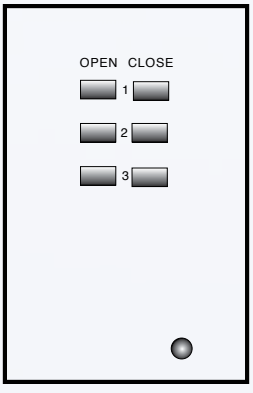
Radio Frequency and Infrared Remote Control Keypads

Custom keypad configurations are available

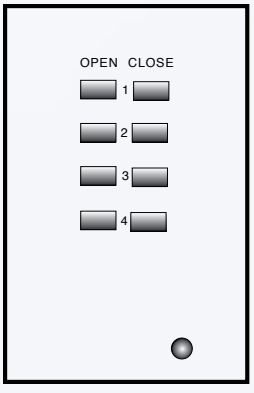
RF/IR-K1



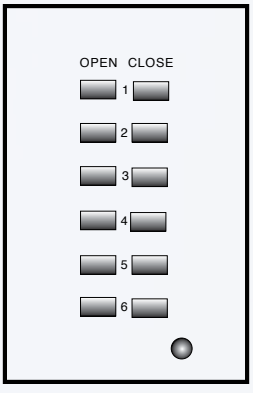
RF/IR-K3



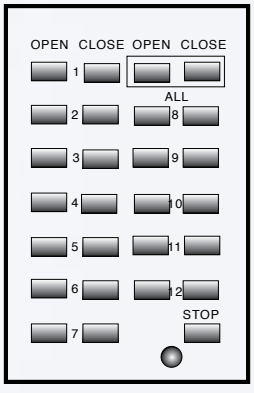
RF/IR-K4



RF/IR-K6



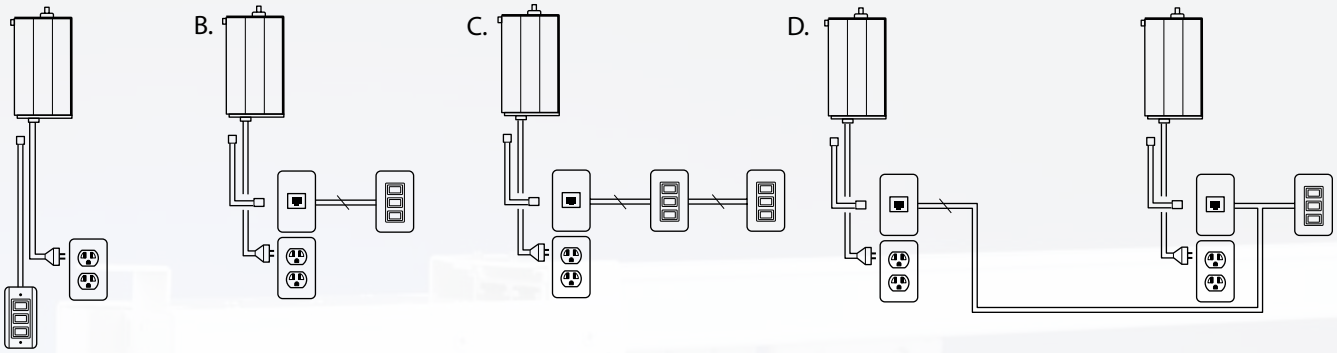
RF/IR-K12



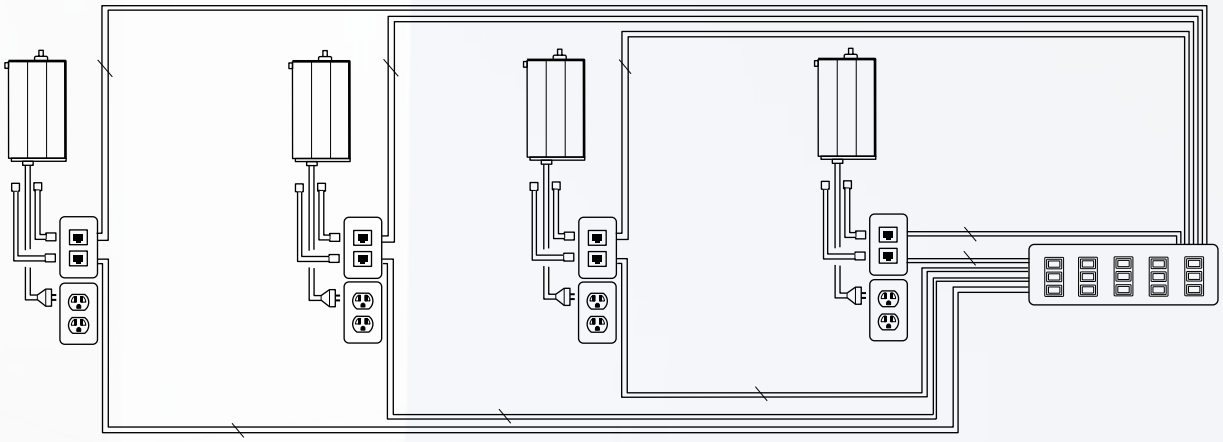
Drapery Motors Electrical/Electronic Control and Wiring Information Guide

A. S-1DD Switch Individual Control
B. S-300A or S-2DD Switch Individual Control
C. Two S-300A or S-2DD Switch Individual Control
D. S-300A or S-2DD Switch Group Control

A. B. C. D.

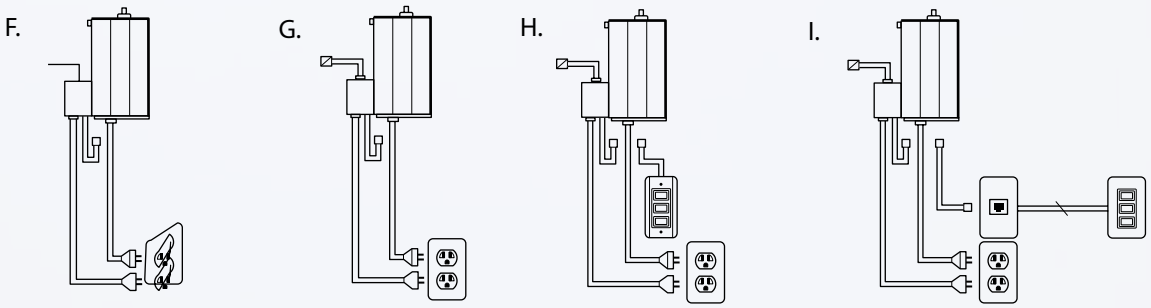


E. Individual and Group Switch Control



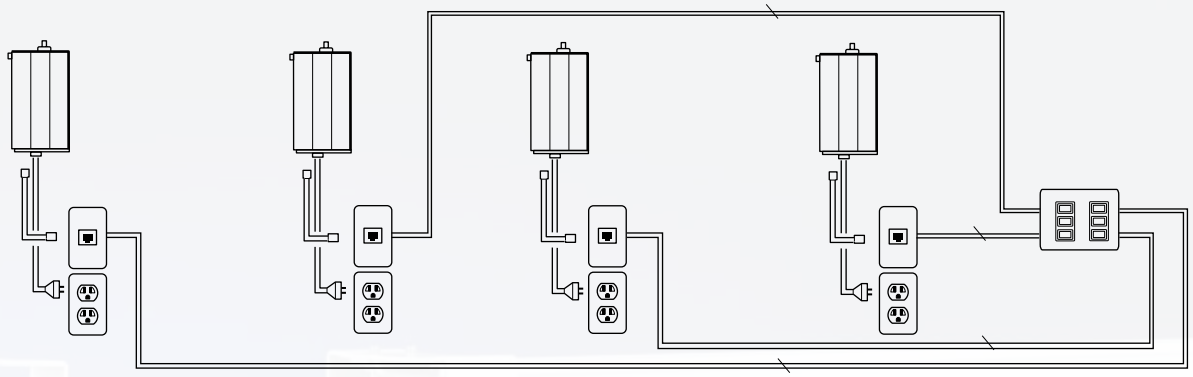
F. Individual Radio Frequency Remote Control
G. Individual Infrared Remote Control
H. Individual Remote Control with S-1DD Switch
I. Individual Remote Control with S-300A or S-2DD Switch

F. G. H. I.

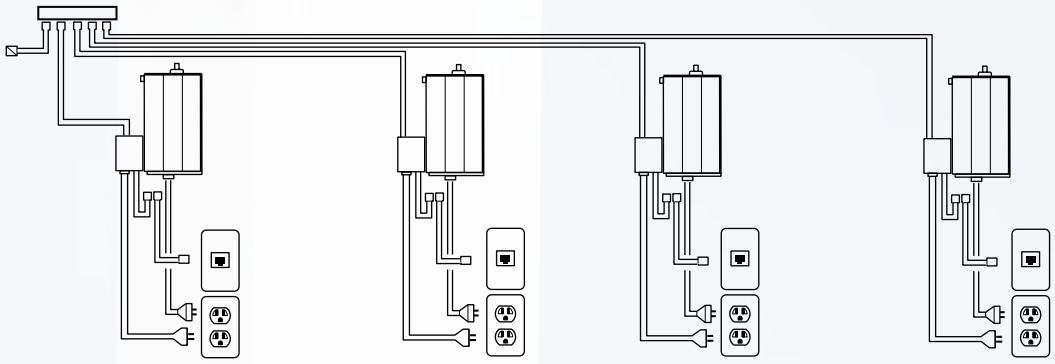


Drapery Motors Electrical/Electronic Control and Wiring Information Guide

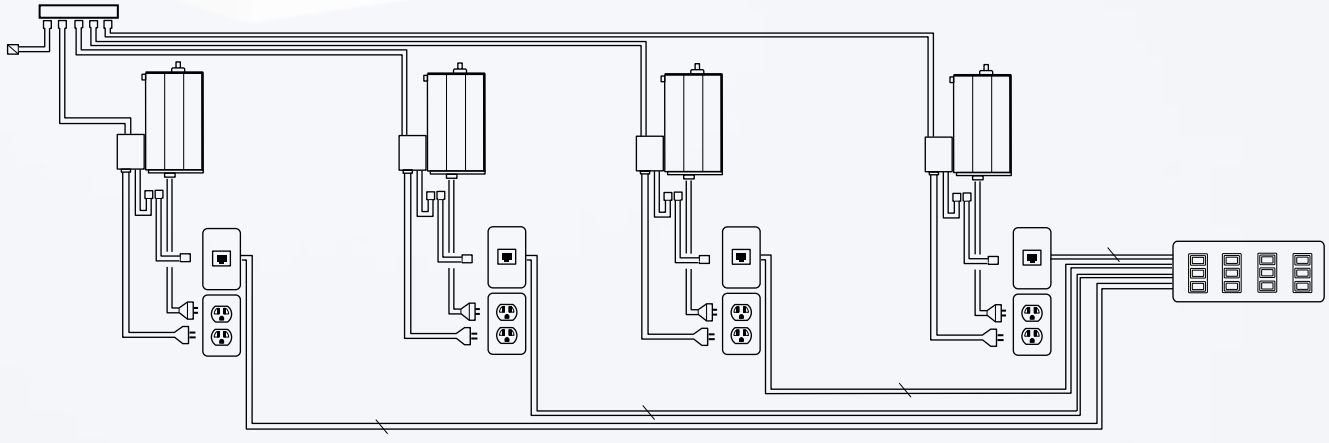
J. Double Group Switch Control with S-300B or S-2DD2



K. Individual and Group Infrared Remote Control

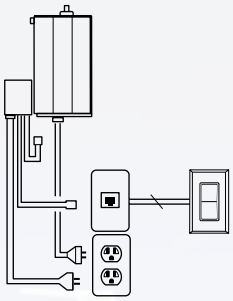


L. Individual and Group Infrared Remote Control with Individual Switch Control

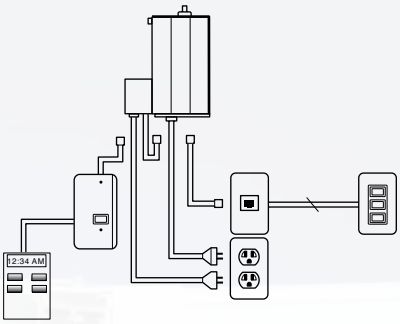


Drapery Motors Electrical/Electronic Control and Wiring Information Guide

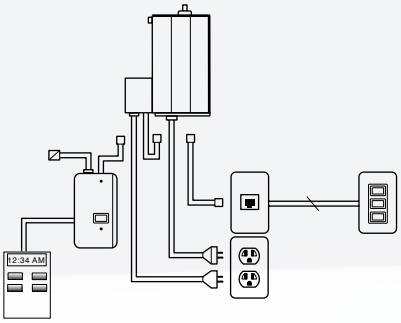
M. SPDT Switch Control with Low Voltage SPDT Interface



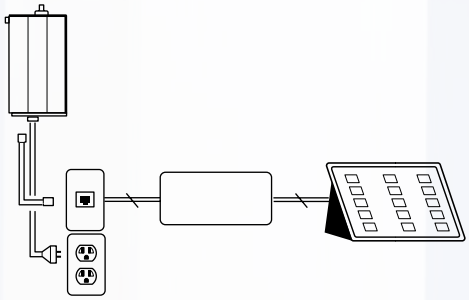
N. Timer and S-300A or S-2DD Switch



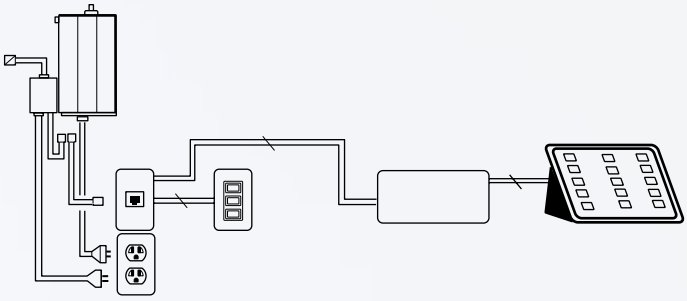
O. Infrared Remote Control with Timer and S-300A or S-2DD Switch



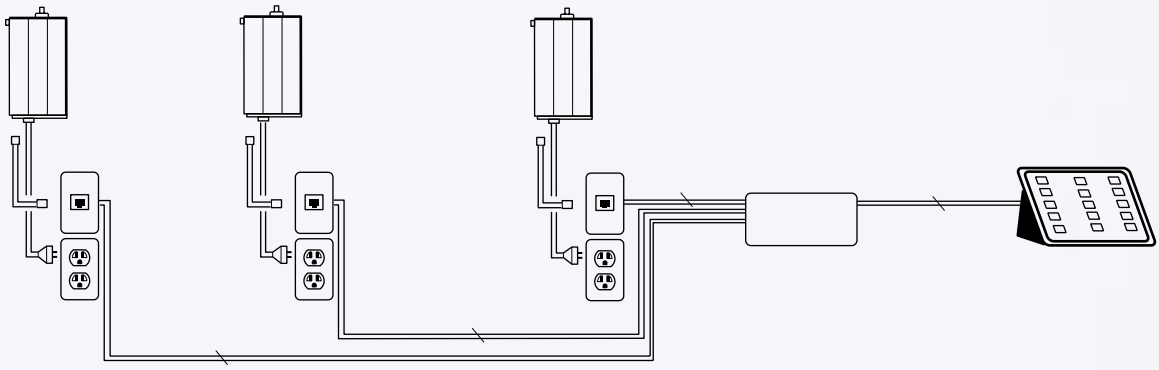
P. Automation Control System



Q. Automation Control System with Individual Infrared Remote Control and S-300A or S-2DD Switch

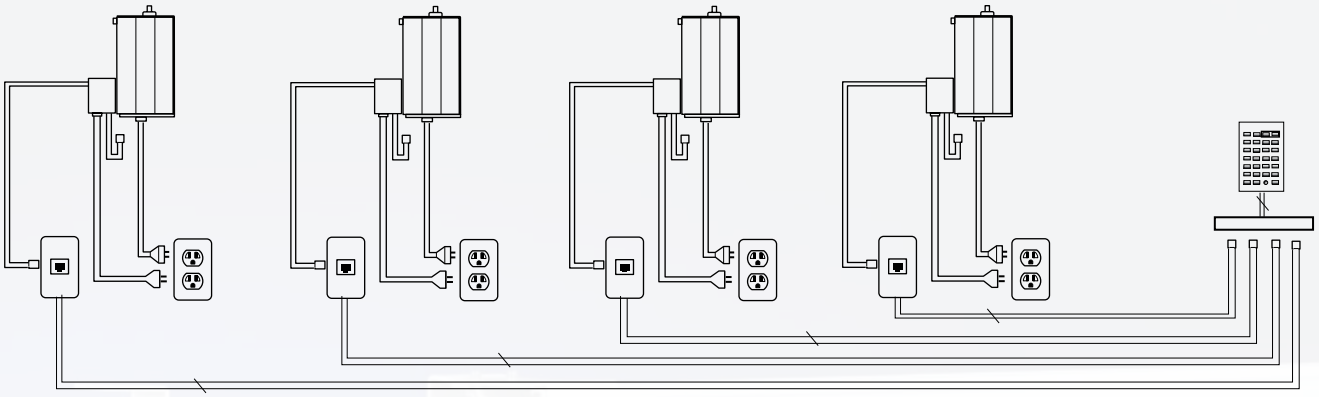


R. Individual and Group Automation Control System

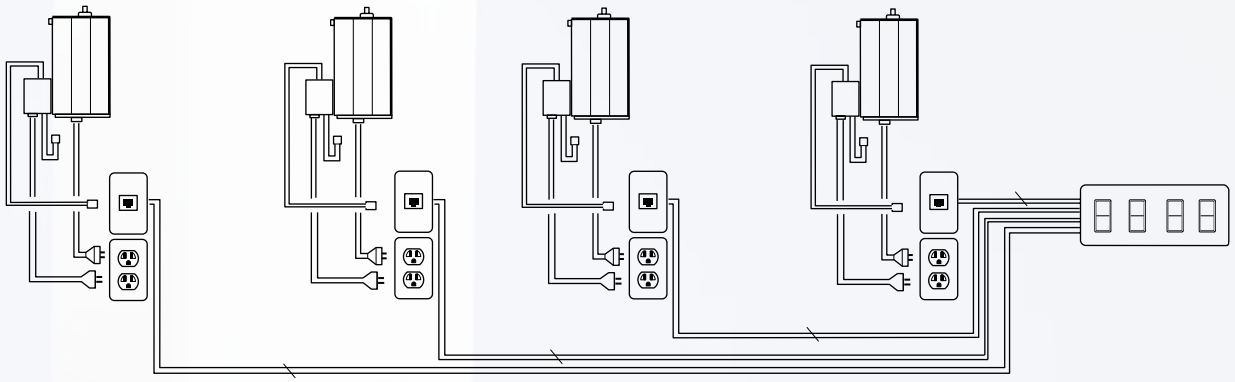


Drapery Motors Electrical/Electronic Control and Wiring Information Guide

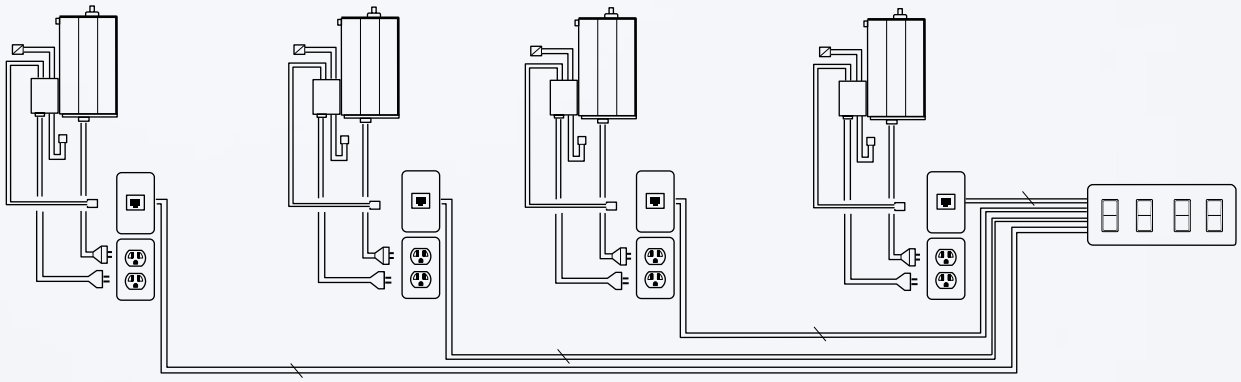
S. Individual and Group Infrared Remote Control with Infrared Keypad



T. Individual Switch Control with Low Voltage SPDT Interface



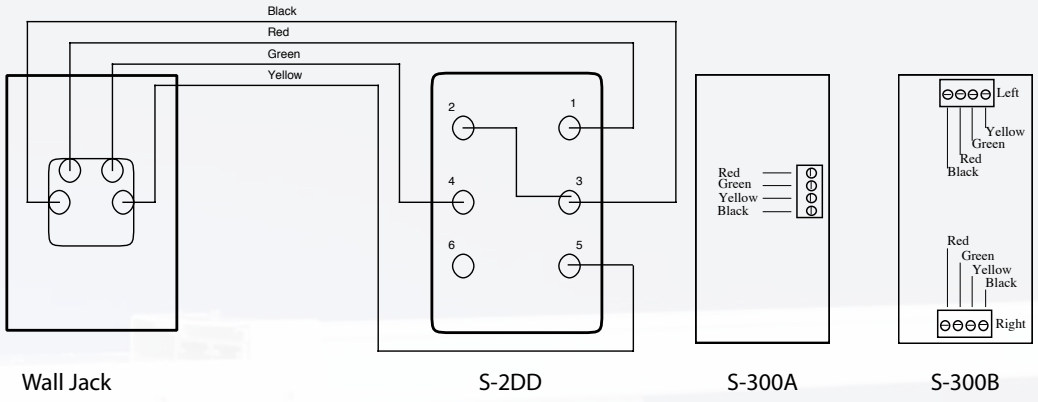
U. Individual Switch Control with Low Voltage SPDT Interface and Infrared Remote Control



Drapery Motors Electrical/Electronic Control and Wiring Information Guide

V. Modular Wiring for Direct Drive Motors

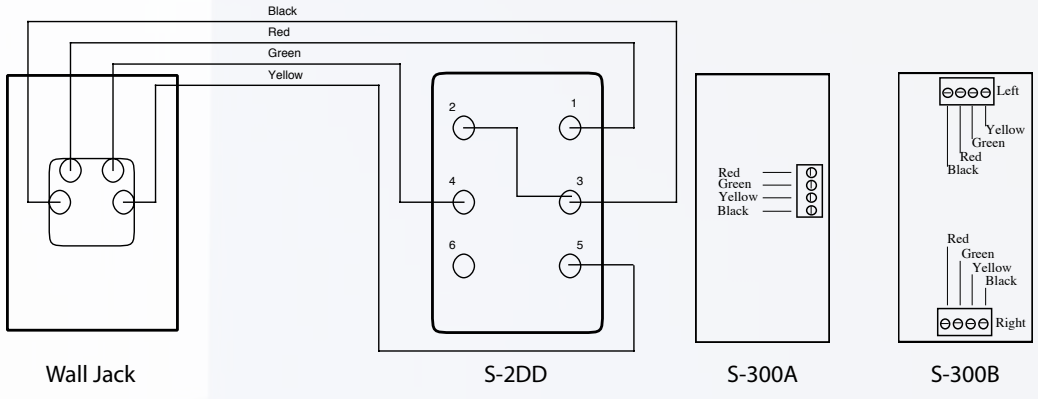
Black - Common
Red - Open
Green - Stop
Yellow - Close



W. Modular Wiring for Model 5 Motors

Motor on right
(standard)
Black - Common
Red - Open
Green - Stop
Yellow - Close

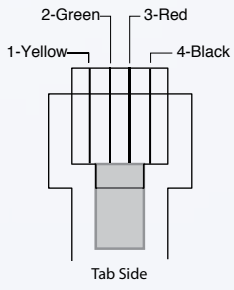
Motor on left
(reversed)
Black - Common
Red - Close
Green - Stop
Yellow - Open

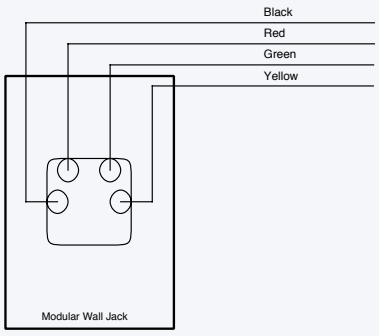


X. Modular Wiring for Direct Drive Motors Connecting to Automation Control System

Modular RJ-11 Plug Connection

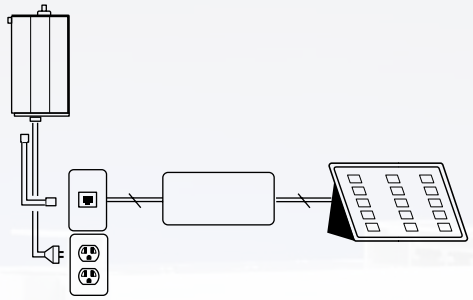
Black - Common
Red - Open
Green - Stop
Yellow - Close





Electrical Wiring Information and Diagrams - A Comparative Guide for Automation Control Systems

Draperies

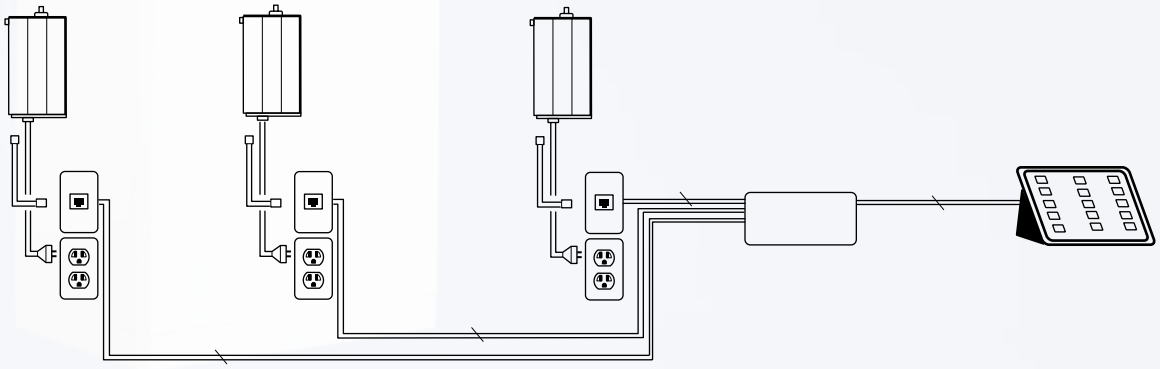


When interfacing with a home theater, multi-room control system, or whole-house automation system; three (3) momentary dry
contacts are required for full featured, open-stop-close operation.

Although, two (2) momentary dry contacts may be utilized to provide open-close functions only.

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 Corporation, Crestron Electronics, LiteTouch, Lutron Electronics, Phast, and Vantage Controls.



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

Modular RJ-11 Plug Connection

Black - Common
Red - Open
Green - Stop
Yellow - Close