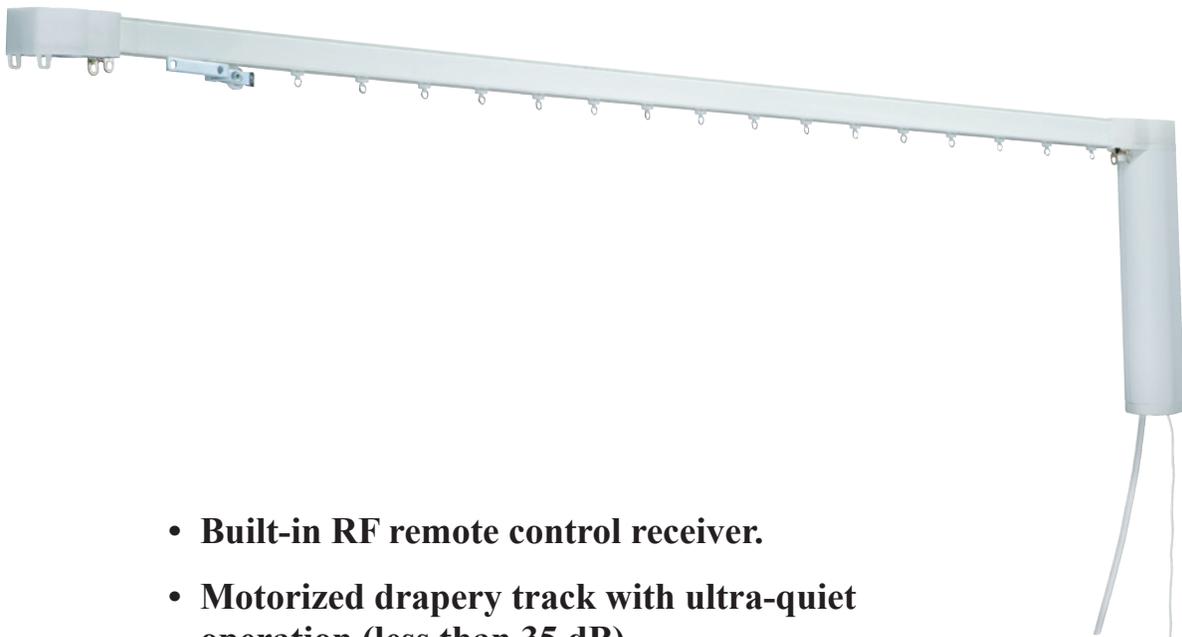


SM AUTOMATIC

MOTORIZATION FOR INTERIOR WINDOW TREATMENTS

MODEL 140-S Motorized Drapery Track

INFORMATION GUIDE



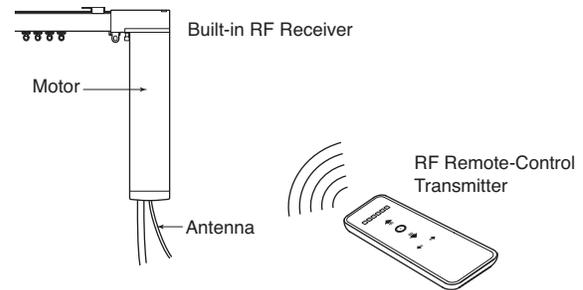
- **Built-in RF remote control receiver.**
- **Motorized drapery track with ultra-quiet operation (less than 35 dB).**
- **Drapery can head up to cover track.**
- **Manual override (by hand-drawn operation) is possible.**
- **Automatically identifies and sets Open and Stop operation limits.**
- **The Touch Motion function performs opening/closing of draperies without using any controls.**
- **Dry contact or line voltage controlled.**

Model 140-S

Model 140-S Unique Features

Feature 1: A built-in RF Remote-Control Receiver

The new motor utilizes a built-in RF remote control receiver.



Feature 2: Ultra-Quiet operation with new noiseless roller carriers

At less than 35 dB, the newly designed motor with vibration controlled shaft, dual bearing pulleys and silent roller carriers provide exceptionally quiet operation.

Feature 3: Drapery can head up to cover track

Drapery can be pinned to head-up or hang below the track.

Feature 4: Hand-drawn operation as well as motor operation

A built-in electromagnetic clutch allows the drapery to be drawn by hand in case of a power outage.

Feature 5: Highly durable belt drive transmission system

The belt is steel reinforced for extra durability.

Feature 6: “Slow start” and “slow stop” functions

These functions enable the smooth start and stop of drapery operation.

Feature 7: Touch motion function

The touch motion function performs opening/closing of draperies without using any controls.

A slight tug of the drapery will automatically activate the motor in either the open or close position.



Feature 8: Dry Contact or Line Voltage Controlled

Motor is versatile and can be controlled by low voltage wiring for dry contact switching (using two momentary dry contacts) or hardwired for switch control using a 110 VAC SPDT switch.

Model 140-S

Specifications

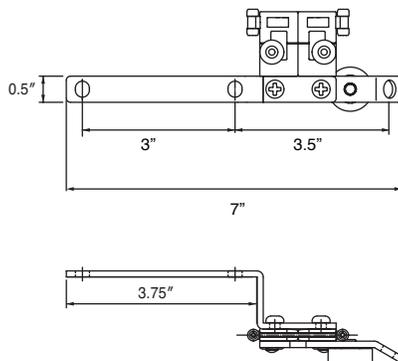
Dimensions (H) x (W) x (D)	13" x 3.125" x 2.125"
Track Compatibility	80
Maximum Drapery Weight (One Way Draw)	100 lbs
Maximum Drapery Weight (Center Open)	140 lbs
Maximum Track Length	36 ft.
Rated power voltage	100 VAC to 240 VAC
Cycle	50/60 Hz
Power consumption	During stand by: 2.5 W or lower Max. load operation: 90 W

Control board operating voltage	5 VDC
Control board operating current	5 mA
Amperage	1.4 A
Operating speed	6 in/sec
Rated current	0.8 N.m
Ambient temperature	0 to 50°C (non-condensing)
Time rating	4 min. (continuous operation)
Noise level	35 dB (in default motor speed)

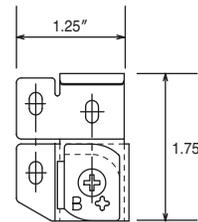


Parts Size

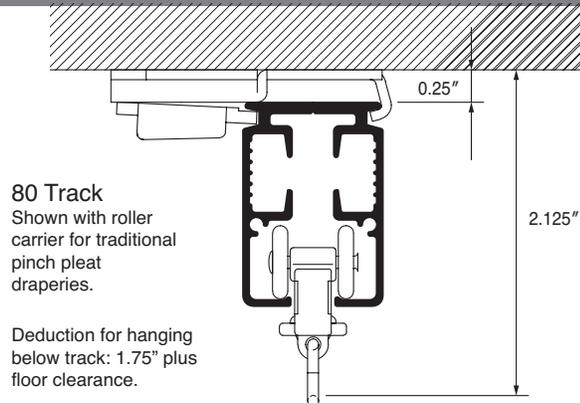
Overlap / Underlap Master Carrier with Arm



Ceiling Bracket



Installation Dimensions



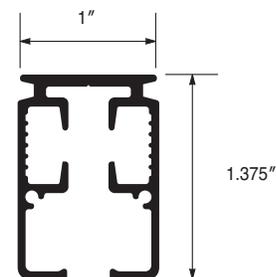
80 Track
Shown with roller carrier for traditional pinch pleat draperies.

Deduction for hanging below track: 1.75" plus floor clearance.

Ceiling or wall brackets add 0.25" to track height.

Recommend installation of brackets in intervals of 30".

80 Track Cross Section



Model 140-S

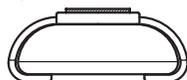
Applicable Range

Specifications	Drapery Weight *	Product Length
Model 140-S 	One-way Draw 100 lbs.	36" - 432"
	Center Open 140 lbs.	

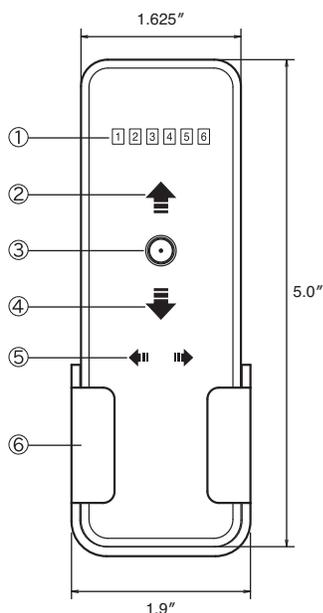
* Carrier load capacity is 3.3 lbs. Avoid allowing draperies to drag on the floor or rub against a valance or soffit, as this will adversely impact the performance of the motor. Improper heading up of the drapery may cause additional friction against the track as well, also resulting in reduced pulling capacity of the motor.

RF Remote-Control Transmitter

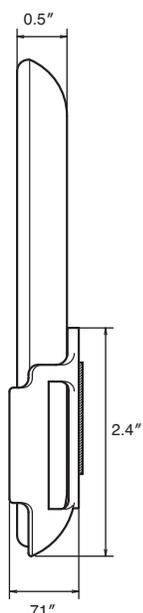
Top view



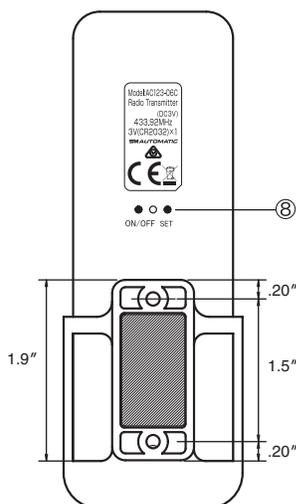
Front view



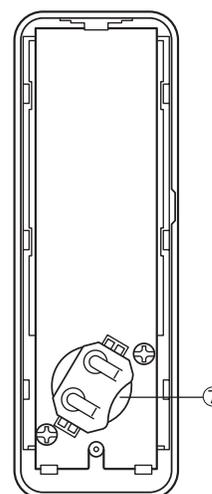
Side view



Back view



Inside view



Parts Name

①	Address No. LED Indicator
②	Open Button
③	Stop Button
④	Close Button
⑤	Address No. Setting Button
⑥	Holder
⑦	Lithium Battery (CR2032)
⑧	ON/OFF Button

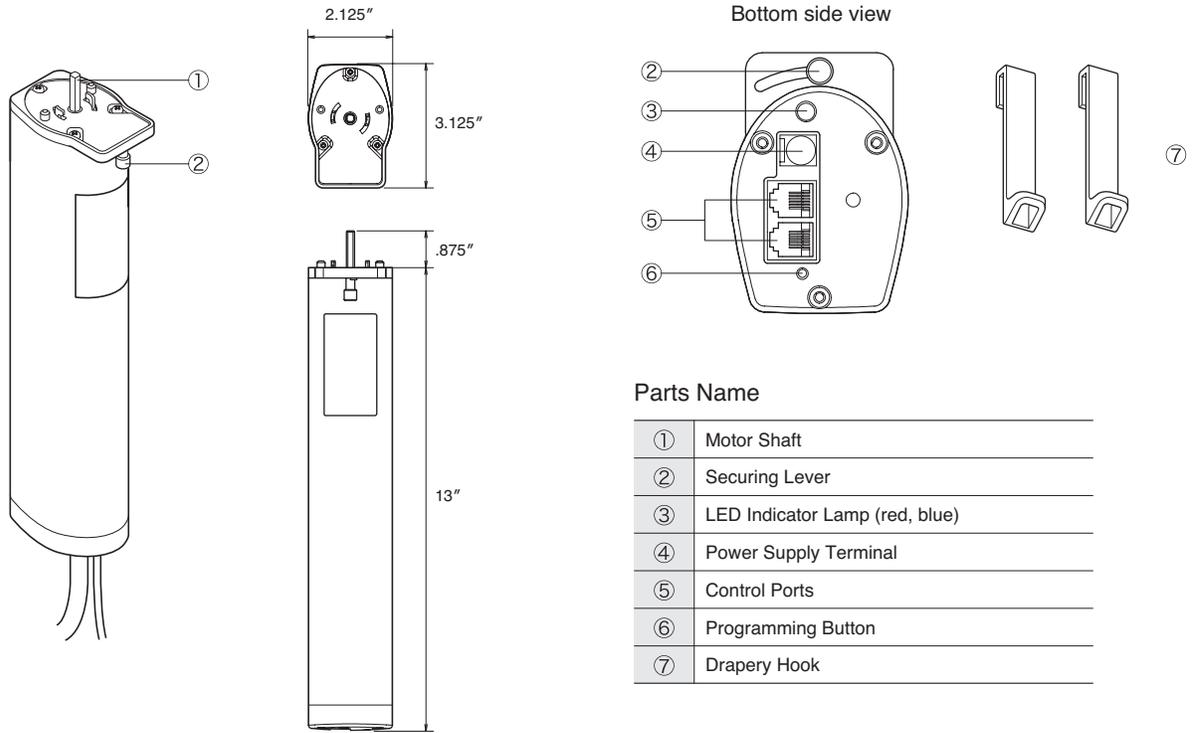
Specification

Source Voltage	DC 3V (CR2032 × 1)
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Number of Channel	1, 2, 6, 16
Ambient Temperature	-10~50°C (Non-condensing)
Reaching Distance	100 ft. (varies depending on conditions)
Product Size (H) x (W) x (D)	5" x 1.625" x 0.5"
Product Weight	Approx. 58 g

Model 140-S

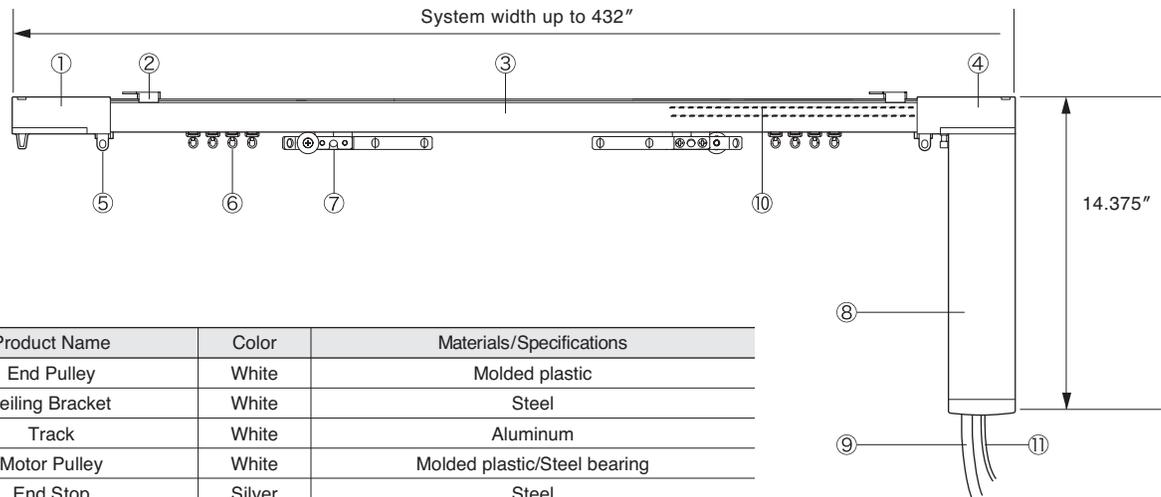
Product View

Model 140-S



Product Overall View and Names of Parts

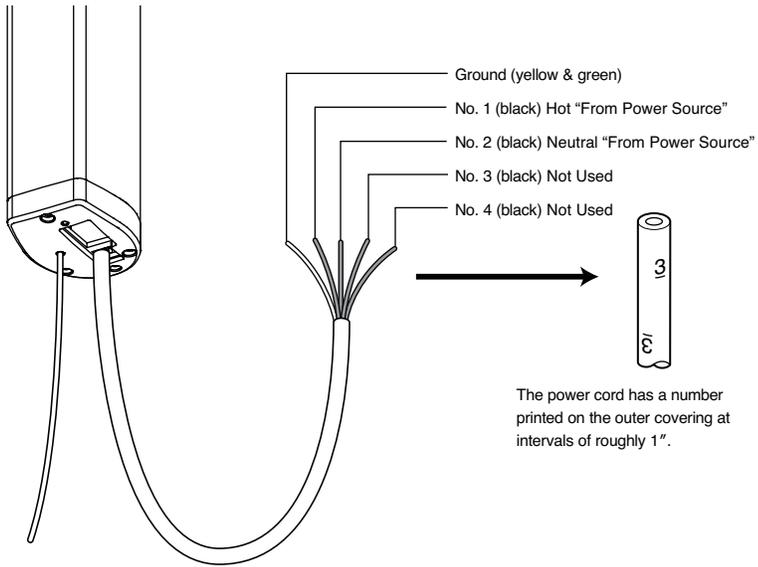
Model 140-S



No.	Product Name	Color	Materials/Specifications
①	End Pulley	White	Molded plastic
②	Ceiling Bracket	White	Steel
③	Track	White	Aluminum
④	Motor Pulley	White	Molded plastic/Steel bearing
⑤	End Stop	Silver	Steel
⑥	Roller Carrier	Natural	Molded plastic
⑦	Master Carrier	Silver	Steel, Molded plastic
⑧	Motor	White	Aluminum, molded plastic (case)
⑨	Power Cord	White	Electrical Cable (39")
⑩	Drive Belt	Green	3-layer structure of steel wires, plastic and fiber
⑪	Antenna	White	Wire

Model 140-S

Basic Wiring and Connecting Diagram for RF Remote Control or Dry Contact Switching - Using 3 Wires



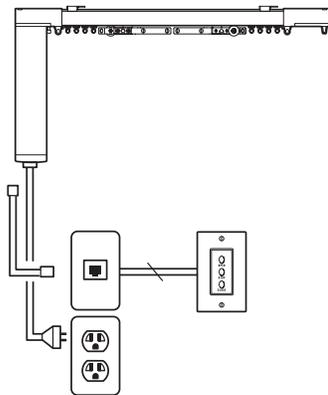
Operations and Connecting Diagrams

Wire	3 Wires
	Ground Hot Neutral
Contact	Dry
RF Remote	Yes
Slow Stop	Yes
Touch Motion	Yes

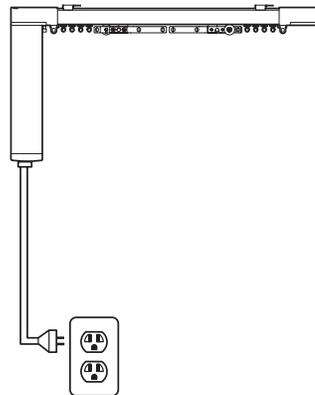
Draper Motor Electrical/Electronic Control and Wiring Information Guide

Recommend use of a Surge Protected 110 VAC duplex outlet.

A. S-300A Switch Individual Control



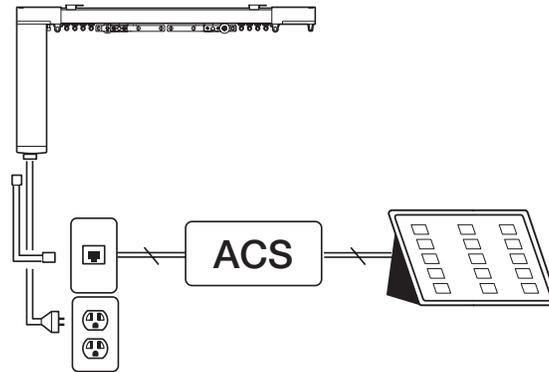
B. Individual Radio Frequency Remote Control



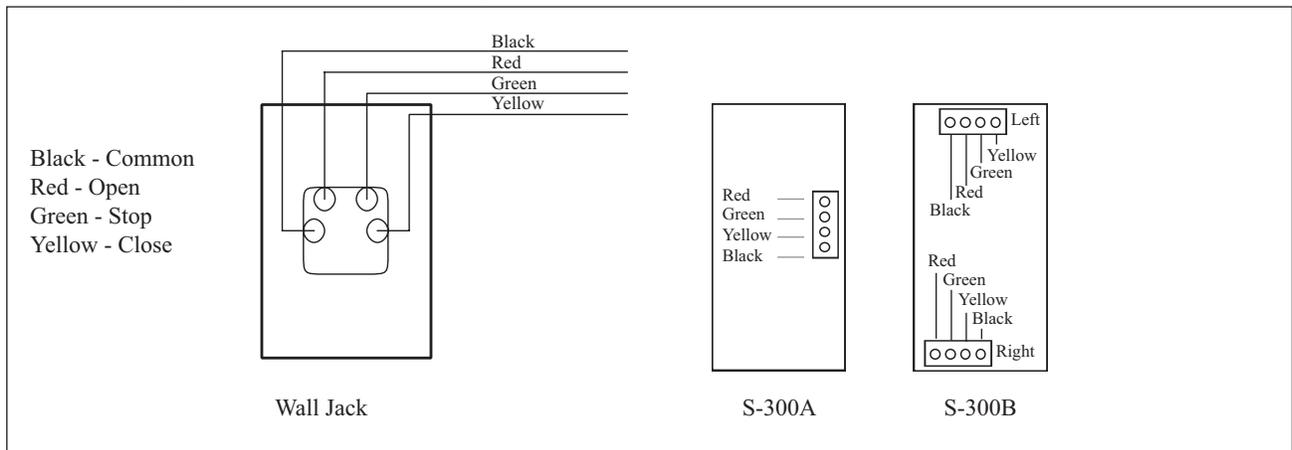
Model 140-S

Drapery Motors Electrical/Electronic Control and Wiring Information Guide (cont'd)

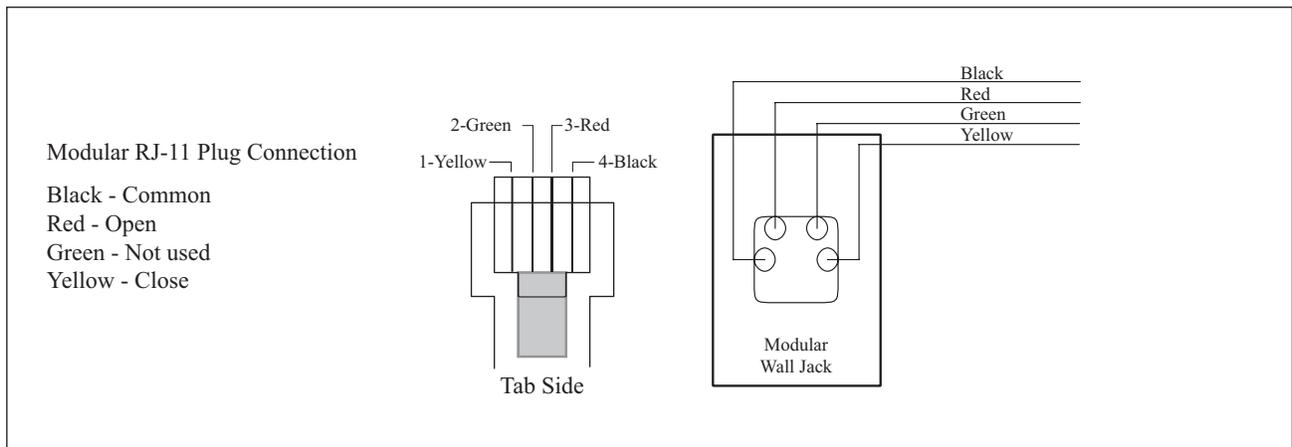
C. Automation Control System



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

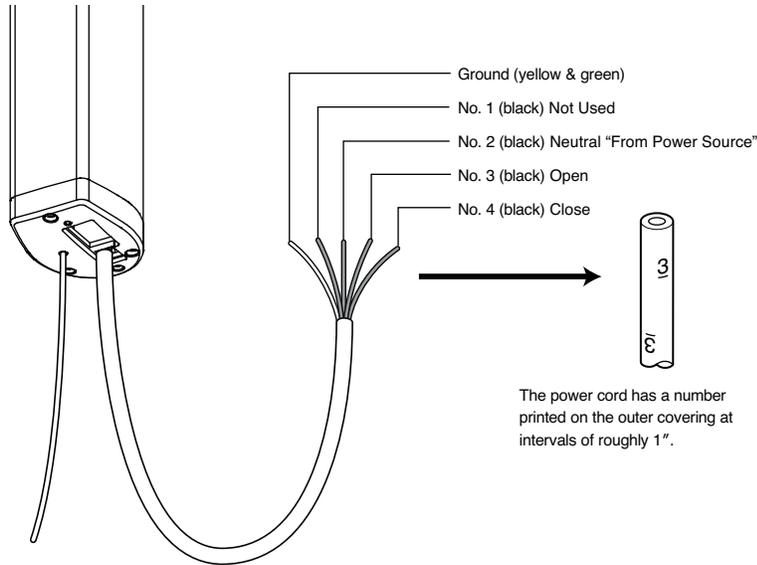


E. Modular Wiring for Model 140-S Connecting to Automation Control System



Model 140-S

Basic Wiring and Connecting Diagram for Line Voltage Switching - Using 4 Wires

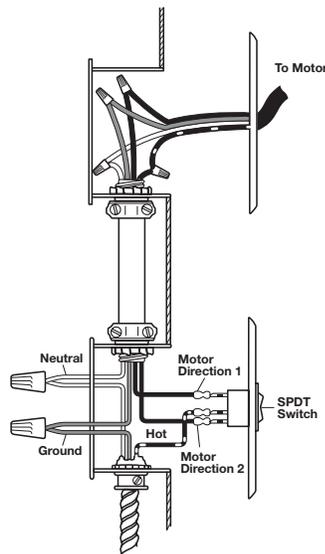


Operations and Connecting Diagrams

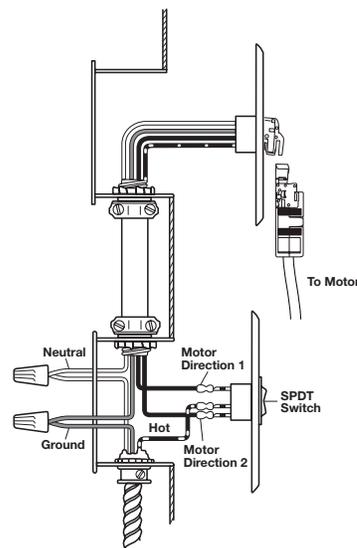
Wire	4 Wires	
	Ground	Neutral
Contact	Line Voltage	
RF Remote	No	
Slow Stop	No	
Touch Motion	Yes	

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