AUTOMATE™
Advanced Motor Technology by Rollease Acmeda

AUTOMATE
A DIVISION OF ROLLEASE ACMEDA

ARC™ (Automate Radio Communication) is our proprietary radio communication technology that brings your motorized system together, offering a variety of functions utilizing 433MHz Bi-directional Communication.

AUTOMATE WIREFREE TUBULAR MOTORS

Automate Li-ion battery-powered motorized shades are a perfect retro-fit for existing homes or small commercial projects.

Li-ion powered motors require no electrical wiring, no external battery pack and no complicated installation.

Li-ion 0.2 Nm   Li-ion 1.1 Nm

Li-ion Q2.0 Nm   Li-ion 3.0 Nm / Li-ion Q3 Nm / Li-ion Q10 Nm

5 YEAR WARRANTY

- Leveling Control
- Simple limit setting and adjustment
- Favorite position
- 3 operational speed settings available
- 2-way RF communication
- Rechargeable built-in Li-ion battery
- Up to 500 up and down cycles per charge (based on recommended shade size)
- Optional Solar powered charger
- New ARC protocol for simple programing

Works with Apple HomeKit
JUST ASK amazon alexa
works with the Google Assistant
Works with IFTTT
Works with SmartThing
7 YEAR WARRANTY   ARC

Electronic Limit Switch | Battery Powered | Favorite Position | Leveling Control | 433MHz Bi-directional | Adjustable Speed | Quiet Operation

Specifications	Motor	Description	Voltage	Torque	Speed	Sound level	Minimal shade width	Max shade size	Tubes	Control Technology
Battery	RA BT R 25	Automate Battery 25 mm	12V DC	1.1 Nm	40 RPM (Adjustable to 30 or 20)	~46 dB	21 1/4"	84" x 84"	1.5"; S45	Radio
Battery; Quiet	RA BT R 28 Q	Automate Battery 28 mm Quiet	12V DC	2.0 Nm	20 RPM (Adjustable to 28 or 24)	~44 dB	29" (1.5"; S45); 31 1/2" (2.0")	120" x 120"	1.5"; 2.0"; S45	Radio
Battery	RA BT R 35	Automate Battery 35 mm	12V DC	3.0 Nm	20 RPM (Adjustable to 28 or 24)	~53 dB	36 3/4"	144" x 144"	2.0"; 2" ZMC; 2.5"; S45	Radio
Battery; Quiet	RA BT R 45 Q	Automate Battery 45 mm Quiet	12V DC	3.0 Nm	20 RPM (Adjustable to 28 or 24)	~40 dB	35 1/4"	144" x 144"	2" ZMC; 2.5"; 3.25"; S60	Radio
Battery	RA BT R 45	Automate Battery 45 mm High Torque	12V DC	10.0 Nm	9 RPM (Adjustable to 8 or 6)	~42 dB	35 1/4	168" x 168"	2" ZMC; 2.5"; 3.25"; S60	Radio
Battery; Quiet (commercial only)	RA BT R 25 V2	Automate 2 Battrey 25 mm Quiet	5V	1.1 Nm	20 RPM (Adjustable to 28 or 24)	~38 dB	26"	84" x 84"	1.25"; 1.5"; S45	Radio
Battery (commercial only)	RA BT R 28 Q2	Automate 2 Battery 28 mm	5V	2.0 Nm	20 RPM (Adjustable to 28 or 24)	~46 dB	30"	120" x 120"	1.5"; 2.0"; S45	Radio

AUTOMATE DC TUBULAR MOTORS

Automate DC powered motorized shades are an excellent choice when designing a new home, motorizing an entire existing home, or planning a small commercial project. DC wired shades are maintenance free and low voltage DC wiring keeps installation costs to a minimum.

DCRF 0.2 Nm   DCRF 1.1 Nm

DCRF Q2.0 Nm   DCRF 3.0 Nm / DCRF Q3 Nm / DCRF Q10 Nm

7 YEAR WARRANTY   ARC

- Leveling Control
- SImple limit setting and adjustment
- Favorite position
- 3 operational speed settings available
- 2-way RF communication
- New ARC protocol for simple programing

Electronic Limit Switch | Favorite Position | Leveling Control | 433MHz Bi-directional | Adjustable Speed | Quiet Operation

Specifications	Motor	Description	Voltage	Torque	Speed	Sound level	Minimal shade width	Max shade size	Tubes	Control Technology
Low Voltage	RA DC R 25	Automate Low Voltage 25 mm	12V DC	1.1 Nm	40 RPM (Adjustable to 30 or 20)	~46 dB	14 5/8"	84" x 84"	1.5"; S45	Radio
Low Voltage; Quiet	RA DC R 28 Q	Automate Low Voltage 28 mm Quiet	12V DC	2.0 Nm	20 RPM (Adjustable to 28 or 24)	~44 dB	20 1/8" (1.5"; S45); 22 5/8" (2.0")	120" x 120"	1.5"; 2.0"; S45	Radio
Low Voltage	RA DC R 35	Automate Low Voltage 35 mm	12V DC	3.0 Nm	20 RPM (Adjustable to 28 or 24)	~53	24 3/4"	144" x 144"	2.0"; 2" ZMC; 2.5"; S45	Radio
Low Voltage; Quiet	RA DC R 45 Q	Automate Low Voltage 45 mm Quiet	12V DC	3.0 Nm	20 RPM (Adjustable to 28 or 24)	~40 dB	32"	144" x 144"	2" ZMC; 2.5"; 3.25"; S60	Radio
Low Voltage	RA DC R 45	Automate Low Voltage 45 mm High Torque	12V DC	10.0 Nm	9 RPM (Adjustable to 8 or 6)	~42 dB	32"	168" x 168"	2" ZMC; 2.5"; 3.25"; S60	Radio

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AUTOMATE AC TUBULAR MOTORS

Automate AC powered motorized shades are a great choice for homes with very large windows and awnings as well as large commercial projects. With lifting capacities up to 14' x 14' and run times up to 4 minutes, Automate AC powered shades are fit for projects of any size.

- Leveling Control
- Simple limit setting and adjustment
- Favorite position
- 2-way RF communication
- New ARC protocol for simple programming
- "Slim Head" design minimizes light gap
- Quiet operation

Electronic Limit Switch | Favorite Position | Leveling Control | 433MHz Bi-directional | Quiet Operation

7 YEAR WARRANTY | ARC

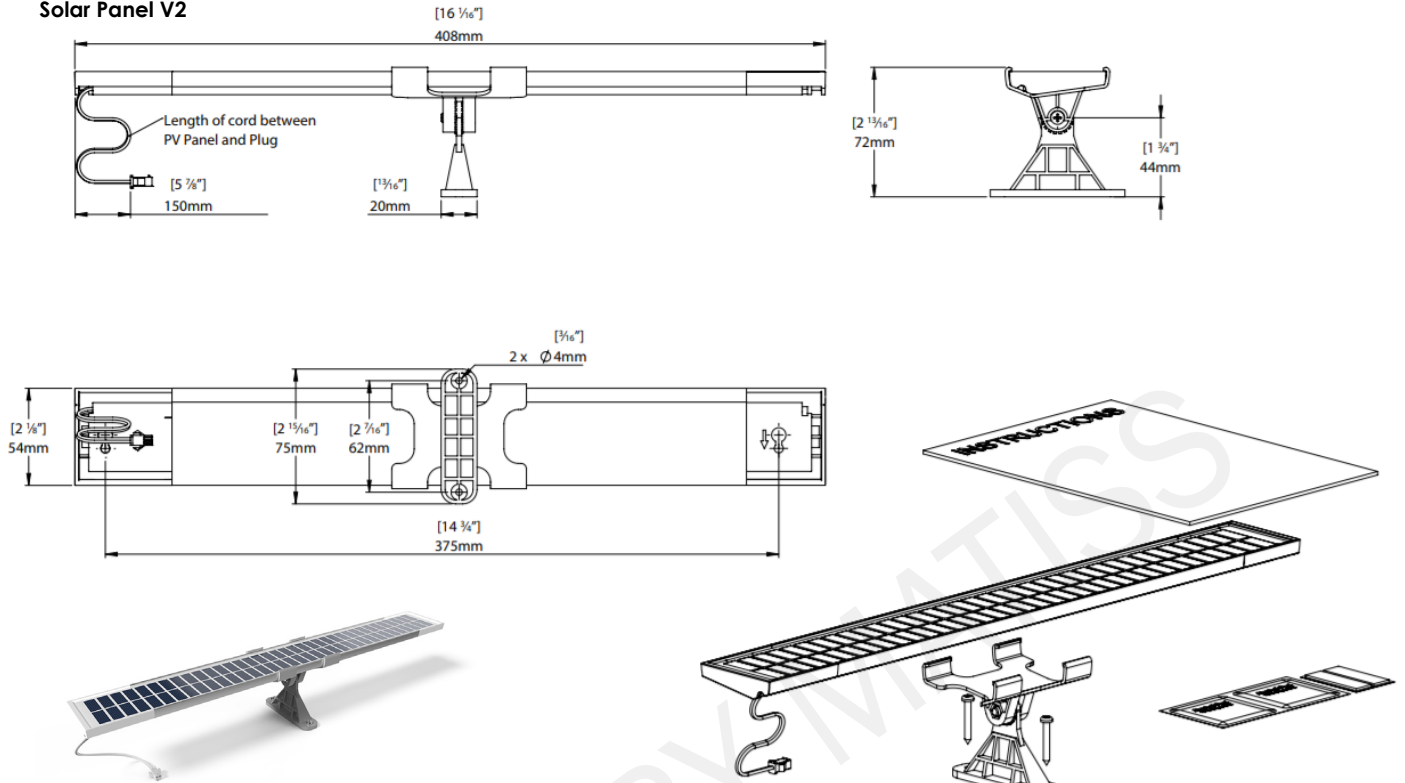| Specifications	Motor	Description	Voltage	Torque	Speed	Sound level	Minimal shade width	Max shade size	Tubes	Control Technology
Line Voltage	RA AC R 35	Automate Line Voltage 35 mm	110V AC	6.0 Nm	33 RPM	~44 dB	28 3/8"	168" x 168"	2.0"; 2" ZMC; 2.5"; S45	Radio
Line Voltage; Quiet	RA AC R 35 Q	Automate Line Voltage 35 mm Quiet	110V AC	6.0 Nm	24 RPM	~42 dB	27 1/4"	168" x 168"	2.0"; 2" ZMC; 2.5"; S45	Radio
Line Voltage; Quiet	RA AC R 45 Q	Automate Line Voltage 45 mm Quiet	110V AC	10.0 Nm	21 RPM	~42 dB	35 1/2"	192" x 192"	2" ZMC; 2.5"; 3.25"; S60	Radio
Line Voltage	RA AC R 45	Automate Line Voltage 45 mm High Torque	110V AC	15.0 Nm	32 RPM	~53 dB	31 1/2"	192" x 192"	2" ZMC; 2.5"; 3.25"; S60	Radio
Line Voltage	RA AC WT 35	Automate Line Voltage 35 mm Wired Control	110V AC	6.0 Nm	33 RPM	~44 dB	25 5/8"	168" x 168"	2.0"; 2" ZMC; 2.5"; S45	Wired control (WT)
Line Voltage	RA AC WT 45 Q	Automate Line Voltage 45 mm Quiet Wired Control	110V AC	10.0 Nm	21 RPM	~42 dB	29 3/4"	192" x 192"	2" ZMC; 2.5"; 3.25"; S60	Wired control (WT)

DEDUCTIONS

Motor	Description	Valance	Inside Mount	Outside Mount	Recommended Tube Size
RA BT R 25 V2	Automate 2 Battrey 25 mm Quiet	-	-1.125"	-1"	1.5", 2.0"
RA BT R 28 Q2	Automate 2 Battery 28 mm	Cassette 100/120	-1.375"	-1.25"	
		Fascia 3", Fascia 4"	-1.125"	-1"	
		Fascia 5"	-1.375"	-1.25"	
RA DC R 25	Automate Low Voltage 25 mm	-	-1.25"	-1.125"	1.5", 2", S45
RA DC R 28 Q	Automate Low Voltage 28 mm Quiet	Cassette 100/120	-1.5"	-1.375"	
RA BT R 25	Automate Battery 25 mm	Fascia 3", Fascia 4"	-1.25"	-1.125"	
RA BT R 28 Q	Automate Battery 28 mm Quiet	Fascia 5"	-1.5"	-1.375"	
RA DC R 35	Automate Low Voltage 35 mm	-	-1.375"	-1.25"	2 ZMC, S45, 2.0", 2.5"
RA BT R 3	Automate Battery 35 mm	Cassette 120	-1.625"	-1.5"	
RA AC R 35	Automate Line Voltage 35 mm	Fascia 3", Fascia 4"	-1.375"	-1.25"	
RA AC R 35 Q	Automate Line Quiet 35 mm Quiet	Fascia 5"	-1.625"	-1.5"	
RA AC WT 35	Automate Line Voltage 35 mm Wired Control				
RA DC R 45 Q	Automate Low Voltage 45 mm Quiet	-	-1.375"	-1.25"	2 ZMC, 2.5", 3.25"
RA DC R 45	Automate Low Voltage 45 mm High Torque	Cassette 120	-1.625"	-1.5"	S60/S80
RA BT R 45 Q	Automate Battery 45 mm Quiet	Fascia 3", Fascia 4"	-1.375"	-1.25"	
RA BT R 45	Automate Battery 45 mm High Torque	Fascia 5"	-1.625"	-1.5"	
RA AC R 45 Q	Automate Line Voltage 45 mm Quiet				
RA AC R 45	Automate Line Voltage 45 mm High Torque				
RA AC WT 45 Q	Automate Line Voltage 45 mm Quiet Wired Control				

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AUTOMATE™ Controllers and Accessories

Solar Panel V2

[16 ¹/₁₆"]
408mm

Length of cord between
PV Panel and Plug

[5 ⁷/₈"]
150mm

[¹³/₁₆"]
20mm

[2 ¹³/₁₆"]
72mm

[1 ¾"]
44mm

[2 ¹/₈"]
54mm

[³/₁₆"]
2 x ⌀4mm

[2 ¹⁵/₁₆"]
75mm

[2 ⁷/₁₆"]
62mm

[14 ¾"]
375mm

AUTOMATE BY ROLLEASE ACMEDA

7 YEAR WARRANTY   **ARC**

Quiet Operation
Solar powered and battery operated, means your shades can function in the background, improving your environment without drawing unwanted attention.

Scalable
For low light areas, multiple solar panels can be combined to work together to meet your growing energy needs.

Sustainable Solution
Using the power of the sun, recharge the built-in lithium-ion battery by connecting our solar panel to maintain full battery health, sustainably. Finally, an option that's good for the environment, reducing energy, saving on energy costs, and reducing waste, giving you peace of mind.

Set & Forget
Our retrofit Automate™ Li-ion wirefree range motors paired with the convenient, solar panel charging capabilities, means the solar panel does the charging work for you. This battery powered, solar charging combination solution is the ultimate set and forget shade option.

Battery Operated
Our rechargeable Li-on battery powered range requires no electrical wiring, external battery pack, installation, or unsightly cords.

Rechargeable Vs. Disposable
Our solar panels constantly recharge your motors. Eliminates burning through disposable batteries, reduces unnecessary costs, and limits negative impact on the environment, avoiding toxic battery waste going straight to landfill.

Efficient Energy Source
The efficient trickle of energy from the sun powers your shades for the lifetime of the motor. While some solutions use stronger motors than necessary requiring more power, Automate™ shades use the right size motors for each application that consume up to 90% less energy than AC motors.
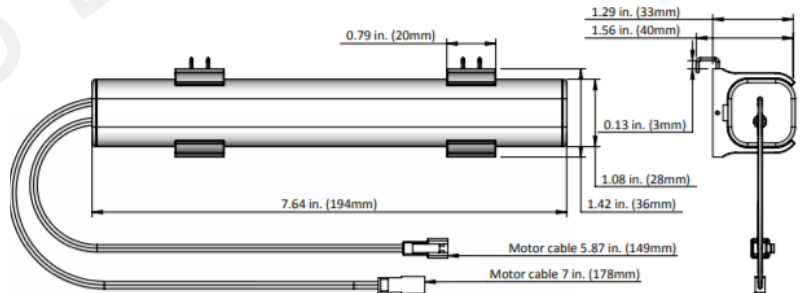
Programmable
Program your shades or use sensors to automatically manage the natural light, while minimizing your reliance on artificial light and associated energy costs. Your shades can help with temperature control for another level of energy efficiency.

Safer Option
Take shades safety to a new level. Battery powered shade motors eliminates the need for shade cords or charging cords; a valuable safety focused upgrade on manual shades.

Rechargeable Battery Pack

1.29 in. (33mm)
1.56 in. (40mm)
0.79 in. (20mm)
0.13 in. (3mm)
1.08 in. (28mm)
1.42 in. (36mm)
7.64 in. (194mm)
Motor cable 5.87 in. (149mm)
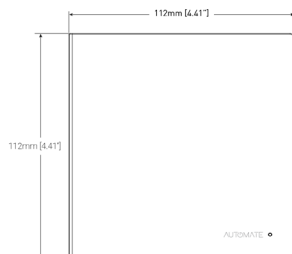Motor cable 7 in. (178mm)

The rechargeable Lithium-Ion battery pack enables Automate DC motors to operate wirelessly and without the constraints of traditional battery wands with disposable batteries.
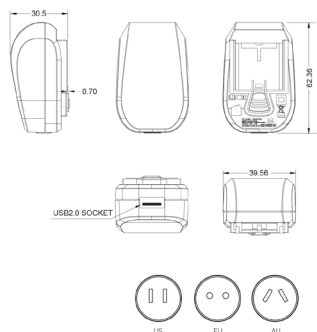
- Used in place of external plug in Power supplies or Battery wands with disposable batteries
- Provides up to 500 up/down cycles on a single charge (depends on shade size)
- Compatible with Automate Cord Lift, Venetian Tilt, 18mm, 25mm & 28mm tubular DC motors
- Small profile allows for optimal placement in window pocket
- Battery pack fully recharges in ~ 6 hours
- Battery health status reported in Automate Pulse App
- Pairs with optional solar panel for autonomous re-charging

Pulse 2

DIMENSIONS

112mm [4.41"]

112mm [4.41"]

30mm [1.18"]

RJ45 SOCKET

FACTORY RESET

PAIRING BUTTON

POWER ADAPTORS

30.5

0.70

62.36

39.56

USB2.0 SOCKET

US   EU   AU

Pulse 2 Specification

Input Voltage	5V	Apple IOS Version	Needs to be 10 or greater
Input Power	1000mA	Android Version	Needs to be 6.0 or greater
Wi-Fi network	2.4Ghz only	Devices	Compatible with Smart Phones, Tablets and Smart Watches
Shade Control Frequency	433.92 MHz	Accounts per Hub	5
Range	30 meters or 98 feet	Locations per Hub	5
Protection Class	IP20	Devices per Hub	20
Operation Temperature	32°F to 140°F (0°C to 60°C)	Hubs per Location	5
Connection	Ethernet and Wi-Fi	Rooms per location	15
IOT Integration	Apple HomeKit, Amazon Alexa, Google Assistant, IFTTT, SmartThings	Scenes per Location	15
Third Party Device Integration	Control4, ELAN, HomeSeer, Crestron AMX, Savant	Timers per location	15
Ethernet Cable	39 Inches	USB Cable Length	31 Inches

Repeater

- Increases the range up to 40m/131f
- No pairing or configuration
- Easy to use Plug & Play
- USB power
- Simple test function
- Maximum 2 Repeaters per system / network
- Bi-directional (receives motor feedback)

7 YEAR WARRANTY   **ARC**

ROLLEASE ACMEDA

AUTOMATE™ Controllers and Accessories

Automate™ Paradigm Remote Control

Push5 Remote

LEVEL CONTROL

TOUCH SENSITIVE

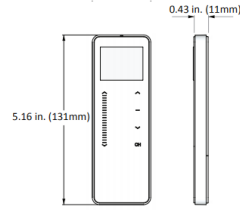**433 MHz**

Dimensions

0.35 in. (9mm)

4.09 in. (104mm)

1.76 in. (45mm)   0.99 in. (25mm)

Cut In Wall Switch

4.09 in. (104mm)

0.11 in. (3mm)

Flush Wall Switch

0.43 in. (11mm)

5.16 in. (131mm)
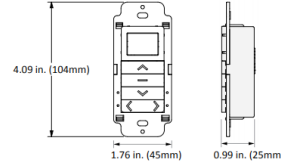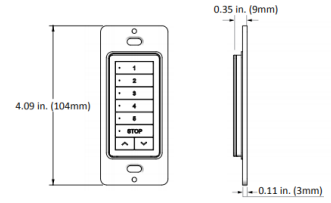
Paradigm Remote

• Available in single channel & 15 channel
• Touch sensitive buttons
• Leveling control (15 channel remote)
• LCD display (15 channel remote)
• Hide unused channel function
• Slim magnetic wall mount

Automate™ Paradigm Wall Switch

15 Channel LCD Screen Remote   **1 Channel Remote**   **2 Channel Remote**

• Available in single channel , 2 & 15 channel
• LCD display with the 15 channel wall switch
• Hide unused channel function (15 channel function)
• Compatible with screw-less decorator cover plates
• Retrofit ready
• Group control

Automate™ Paradigm Surface Mount Switch

• Multi channel selectable
• Optionally functions as a hand held remote
• Compatible with screw-less decorator cover plates
• Retrofit ready
• Group control

SPECIFICATIONS

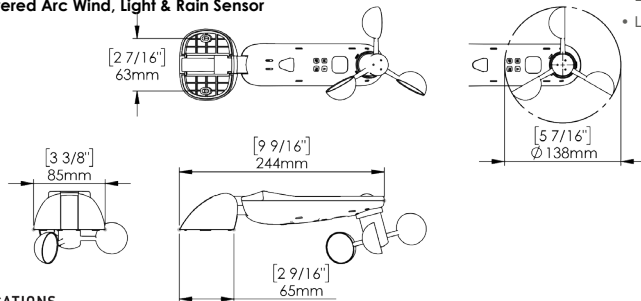|	Paradigm	RF Cut in	RF Surface
Voltage	3V (CR2450)	3V (2x AAA)	3V (CR2430)
Frequency	433.92 MHz		
Transmitting Power	10 milliwatt		
Ambient Operating Temperature	-10°C -50°C		
Transmission Distance	30 meters typical (Up to 120 meters in unobstructed open space)		

DC Power Distribution Panel

[2.47in] 63mm   [9.27in] 236mm   [2.60in] 66mm

[12.65in] 321mm
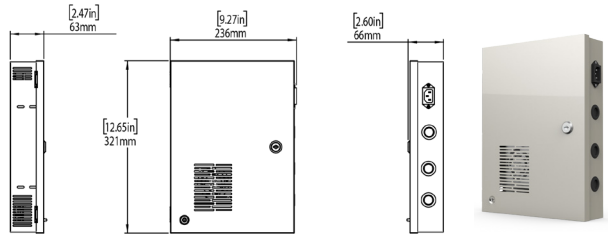
DC Power Distribution Panel Features

• Capacity for up to 18 ARC DC motors (18mm, 25mm, and 28mm motors)
• Ability to parallel connect motor supplies for higher current motors (35mm and 45mm motors)
• LED status indication for checking whether power is being applied to panel
• LED status indication for each individual motor supply

Automate™ Internal Sun Sensor

For indoor shades, the A.R.T. Internal Sunlight Sensor can automatically close your shades to help control sun glare, protect your interior from UV damage and assist to keep your home cool.

Discreet device easily mounts to the inside of your window with a suction-cup.

Choice of 4 pre-set light intensity thresholds. Shades will lower when sunlight intensity goes above the selected level.

Solar Powered Arc Wind, Light & Rain Sensor

[2 7/16"] 63mm

[5 7/16"] Ø 138mm

[3 3/8"] 85mm

[9 9/16"] 244mm

[2 9/16"] 65mm

SPECIFICATIONS

Modulation	FSK	Ingress protection	IP54
Light intensity range	0-100 kLux	Battery capacity	600 mAH
Rain detection sensitivity	Off, Low, High	Charging current	25 mA by solar energy; 120 mA by USB
Frequency	433.92 MHz	Transmitting power	120 mW
Wind Speed Range	0-180 km/h	Standby electric current consumption	20-50 uA
	0-112 mph		
Transmission distance	35m indoor, 200m open space	Ambient operating temperature	-20 ºC - +60 ºC
	115ft indoor, 656ft open space		-4 ºF - 140 ºF

Wind, Light & Rain Sensor Features

• Measure wind speed as an anemometer
• Measure light intensity as a Lux meter
• Capacitive rain sensor
• LCD display
• ARC compatibility
• Micro-B USB data output/charging port
• Solar charge panels
• Built-in Lithium Ion battery
• Water resistant (IP54 rating)
• Universal mount (roof, wall, eave, fascia)

ROLLEASE ACMEDA

7 YEAR WARRANTY   ARC

S45 AUTOMATE

Rollease Acmeda's AUTOMATE S45 range offers three SLIMLINE high performance motorized solutions for our medium roller shade hardware systems. Whether you use the astonishing AUTOMATE Q, showcasing the latest in QUIET operating technology, the EL with seamless electronic limit setting capability, or the ML for home automated control systems, there is a reliable and simple to use Rollease Acmeda motorized solution for any roller shade application. All motors feature built-in receivers with a frequency range up to 650 feet, controlled by our contemporary and stylish remotes and feature slim white-head units for increased aesthetic appearance and minimal light gaps. The range is also supported by a 5-year motor warranty for peace of mind.

AESTHETIC FEATURES

• Slim and compact roller shade system
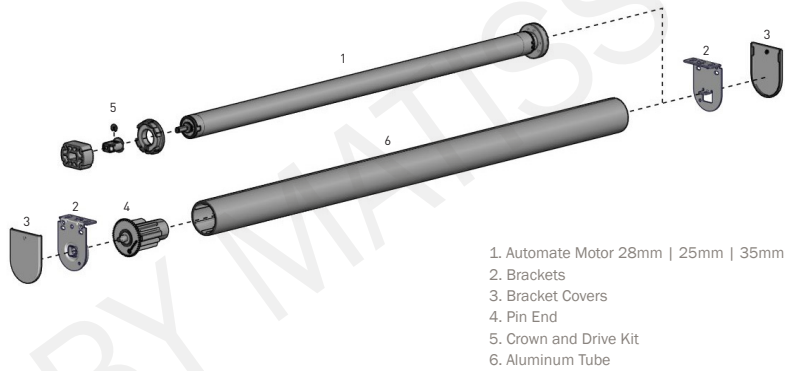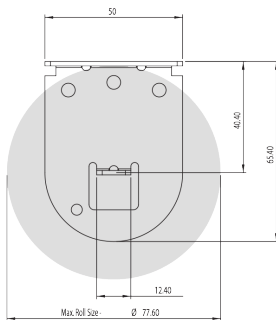• Contemporary design

ASSEMBLY / PRODUCTION FEATURES

• Easy-Lock effortless installation
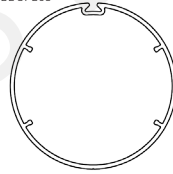• Easy limit setting and programming

FUNCTIONAL BENEFITS

• Leveling control
• Simple limit setting and adjustment
• Favorite position
• 3 operational speed settings
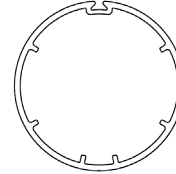• 2-way RF communication
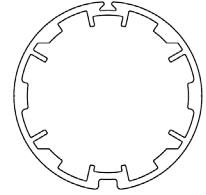• ARC protocol for simple programming

1. Automate Motor 28mm | 25mm | 35mm
2. Brackets
3. Bracket Covers
4. Pin End
5. Crown and Drive Kit
6. Aluminum Tube

TUBE SPECS

S45 LIGHT T-SPLINE TUBE

Code:	RB93-0443-000490
	RB93-6443-000490 (with tape)
OD:	1.69" (43mm)
Length	16' (4.9m)

S45 STANDARD T-SPLINE TUBE

Code:	RB93-0444-000490
	RB93-6444-000490 (with tape)
OD:	1.73" (44mm)
Length	16' (4.9m)

S45 HEAVY DUTY T-SPLINE TUBE

Code:	RB93-0449-000490
	RB93-6449-000490 (with tape)
OD:	1.93" (49mm)
Length	16' (4.9m)

MAX DROP		
S45 LIGHT	S45 STANDARD	S45 HEAVY DUTY
13.12' [4.00m]*		

* Recommended Max Drop. Exceeding this value may cause fabric tracking issues

MAX ROLL

BRACKET	MAX ROLL SIZE
RB09-0352-xxx040	3.1" (77.6mm)

50
40.40
55.40
12.40
Max. Roll Size Ø 77.60

PIN END SIDE WITH BRACKET COVERS
TUBE WIDTH
CONTROL SIDE WITH BRACKET COVERS
SHADE WIDTH
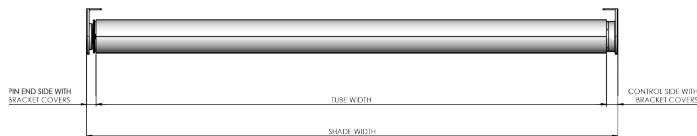
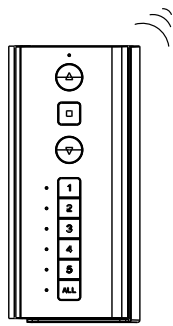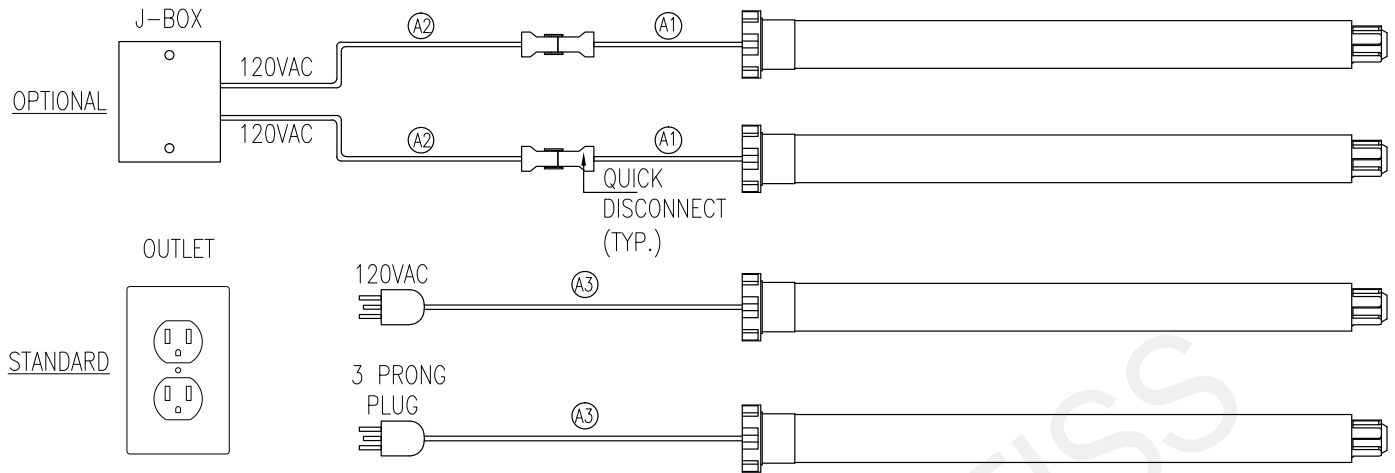| MOTOR		PIN END	CONTROL SIDE	OVERALL DEDUCTION
MTDCBRFQ28-2/ MTDCRF28-2	With Bracket Covers	.55" [14mm]	.60" [15mm]	1.14" [29mm]
	No Bracket Covers	.51" [13mm]	.55" [14mm]	1.06" [27mm]

SYSTEM UPGRADES

• CF90 CASSETTE
• CF90 EDGE
• LINK SYSTEM

CONTROL OPTIONS

PARADIGM REMOTES

WALL SWITCH
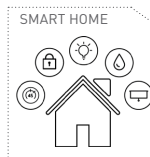
SMART HOME

PULSE

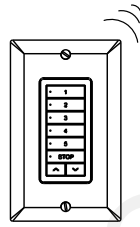### CHARGERS

ELECTRIC

SOLAR

AUTOMATE™ LINE VOLTAGE POINT TO POINT WIRING DIAGRAM

J-BOX

OPTIONAL

120VAC

120VAC

(A2)　　(A1)

(A2)　　(A1)

QUICK
DISCONNECT
(TYP.)

OUTLET

STANDARD

120VAC

(A3)

3 PRONG
PLUG

(A3)

HANDHELD
TRANSMITTER

OR

WIRELESS
WALL SWITCH

	OPTIONAL	STANDARD
(A1)	4 CONDUCTOR 16 AWG STRANDED MOTOR LEAD WITH ANDERSON QUICK DISCONNECT(MALE) STANDARD 1 FT. NOTE: RED IS NOT USED.	
(A2)	4 CONDUCTOR 16 AWG STRANDED J-BOX WITH ANDERSON QUICK DISCONNECT(FEMALE) STANDARD 5 FT. NOTE: RED IS NOT USED.	
(A3)		120V AC POWER CABLE (3 CONDUCTORS) 16 AWG STRANDED FOR 3 PRONG PLUG PART#;MLRTS-I/O-6 (STANDARD LENGTH 6')

NOTE: ① SEE AUTOMATE CONTROLS AND POWER OPTIONS FOR ADDITIONAL INFORMATION

NOTE: ② POWER MAY BE DAISY-CHAINED UP TO CIRCUIT CAPACITY.

AC Motor / AC Control Roller Shade Wiring Diagram

(2) Roller Shade Bracket,
Provided & Installed by SBM

MOTOR(S)

Final Connection by SBM

3/4" Dia. wall
Penetrations by
EC / GC

Whip from Motor to J.B, by
 SBM , E.C. to make conn. to
Junction Box

Roller Shade Bracket,
Provided & Installed
by SBM

1/2"
CLR.

2 1/4"

1"

2"+/-

3/4" Dia. wall
Penetrations by
EC / GC

Whip from Motor
to switch, by
Fabtex, provided
by SBM   &
installed by others