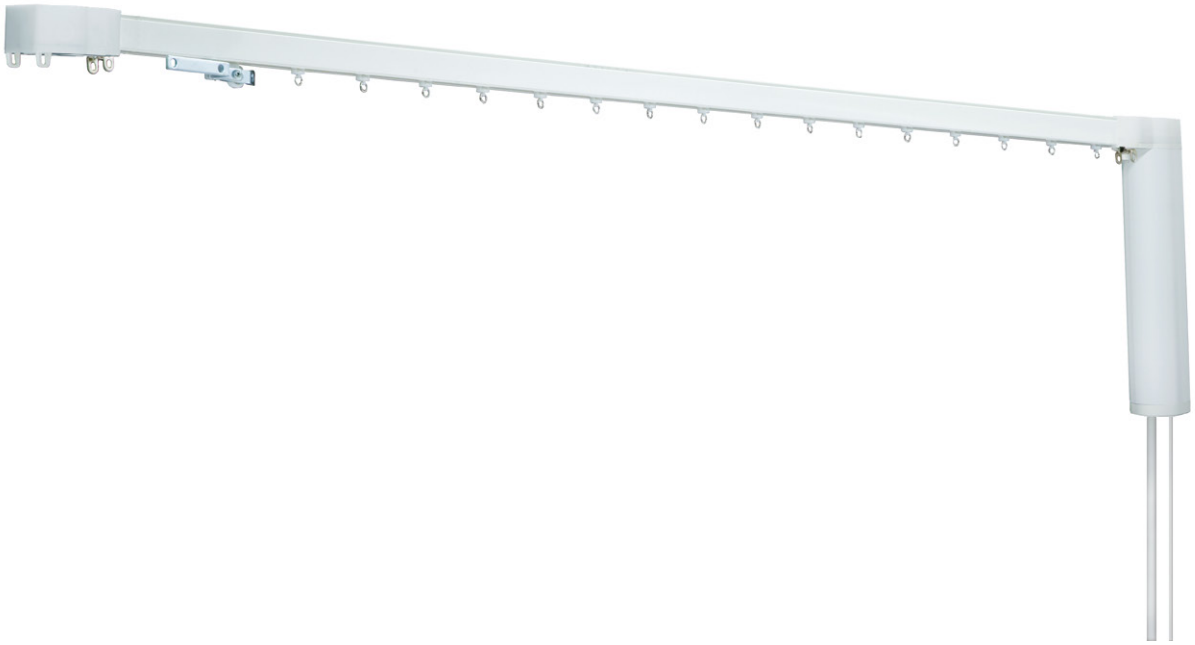
TOSO

Motorized Curtain Track

Ti-8040 CE

CE Compliant Model



- FM remote-control receiver is built-in.
- Motorized curtain track with ultra-quiet operation.
- Automatically identifies and set Open and Close operation limits.
- Manual-override (by hand-draw operation) is smooth.
- Enables opening/closing of curtains without using any switch operations. (Touch Motion)
- Corresponds to the Dry or Wet Contact.
- This product is CE compliant.

Ti-8040s Unique Features

1. Quiet motor, durability belt and silent rollers

The new motor and rollers provide ultra-quite operation.

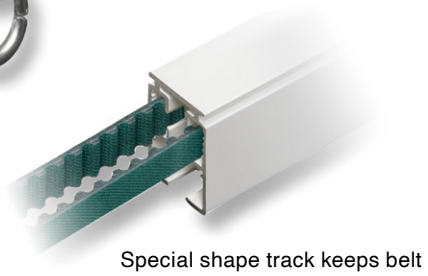


For your comfortable life, Ti-8040 System runs with less than 35 dB with a motor, belt and special silent rollers.

*At a speed setting of 0 (9.5 sec./m) only.



Silent Roller

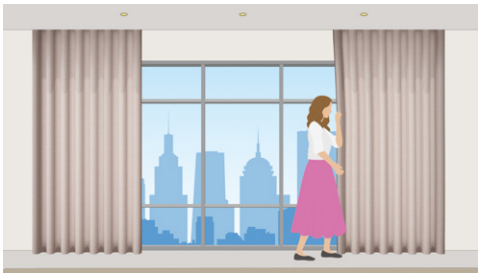


Special shape track keeps belt without damage.

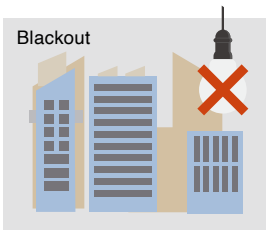
2. Smooth hand-draw operation

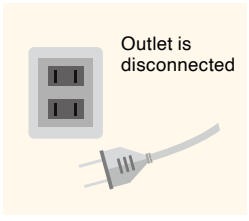
Though the Ti-8040 is a motorized curtain rail, it can be pulled by hand smoothly in the same way of manual hand-draw tracks without any stress by the built-in electromagnetic clutch.





A built-in electromagnetic clutch allows the drapery to be drawn by hand.





Even without power supply, such as a blackout happens or the outlet is disconnected, the Ti-8040 can be pulled by hand smoothly.

Structure



Watch the smooth hand-draw motion for hotel use.

3. Touch motion function

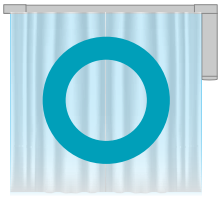
The touch motion function can perform opening/closing of curtains without using any switch.
When curtain is drawn, it will begin to move in the direction itself, and will stop at the place on limit setup.



4. EMC Design and Certification

Electromagnetic compatibility (EMC) means that a device is compatible with (i.e., no interference is caused by) its electromagnetic (EM) environment and it does not emit levels of EM energy that cause electromagnetic interference (EMI) in other devices in the vicinity.

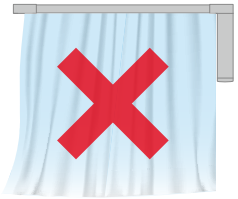
Ti-8040



Not affected

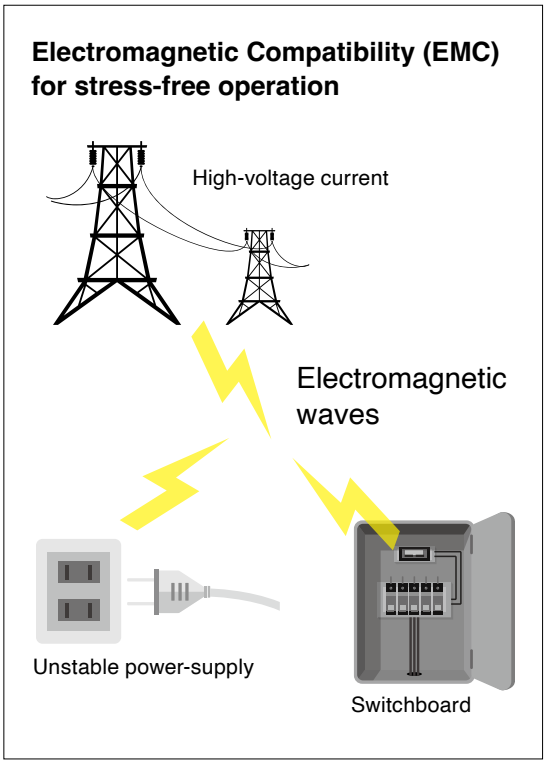
- ☐ No malfunction
- ☐ Properly stops
- ☐ Never Freezes

Ordinary Product



Affected

- ☐ Malfunction
- ☐ Fails to properly stop
- ☐ System freezes



Wave Style's Unique Features for Ti-8040

Smart Design and Adaptability

Smart Wave Curtain System is the ideal curtain rail system for creating elegant wave curtains.
It allows for the creation of beautiful wave patterns without exposing any pitch-keeper tape, preserving the design's integrity. No special materials or sewing techniques are required. Its unique wheeled rollers ensure a consistently smooth hand-drawing experience.
The innovative magnetic curtain stopper maximizes window opening while enabling intuitive hand-drawing operations.

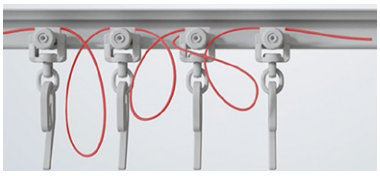




Watch the
Smart Wave Curtain System
in action.

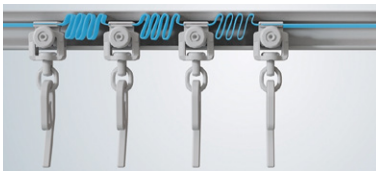
Invisible, Tangle-free Cord

Typical Curtain Rails



✕ • The cord comes out from the rail.
• The cord gets tangled in the roller and hook.

Smart Wave Curtain System PAT.P

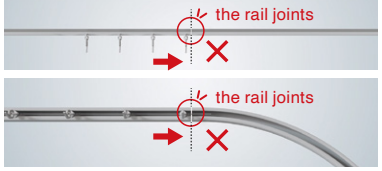


○ Neatly folded tape remains within the rail, "tangle-free".

- This achieves the supreme design and functionality of wave curtains. Even when the curtain is fully opened or fully closed, the Pitch Keep mechanism is not exposed, realizing a flawless wave curtain.
- The Pitch Keep tape does not entangle with the carriage rollers, minimizing the curtain folds.

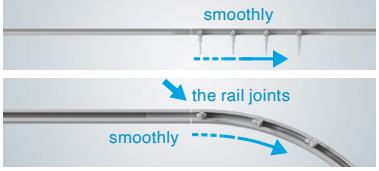
Seamless Hand-draw at Joints

Typical Curtain Rails



✕ The slider tends to get stuck at the rail joint.

Smart Wave Curtain System



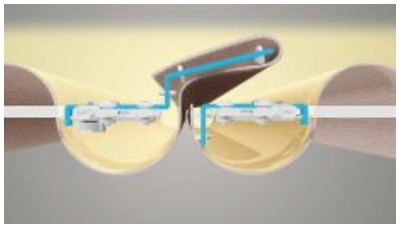
○ The roller runs smoothly over the joint sections.

- Our unique roller with wheel ensures a comfortable feeling in the opening and closing of curtains semi-permanently.
- The curtains can smoothly pass through the rail joints even when they are used joined, accommodating the growing market needs for wide windows and curved rails.
- By supporting the jointing of short-length rails, it contributes to solving logistical issues, including reducing shipping costs.

Smart Blackout

TOSO Smart Wave Overlap (Wave Master Roller Arm) not only prevents light leakage from the center of wave curtains, which was a concern, but also pays attention to the design at the central part, allowing the wave to be beautifully expressed across the entire window.







Watch the Wave Overlap in action.

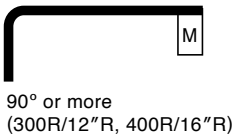


Ti-8040's the Other Useful Functions

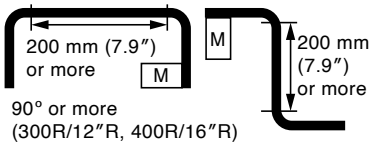
Function 1: Can be curved into a variety of shapes

L-shaped, U-shaped, S-shaped and gradual curves.

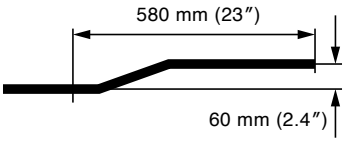
Single Curve



Two Curves
(U-shaped or S-shaped)



Overlap Track



Overall Curve Half

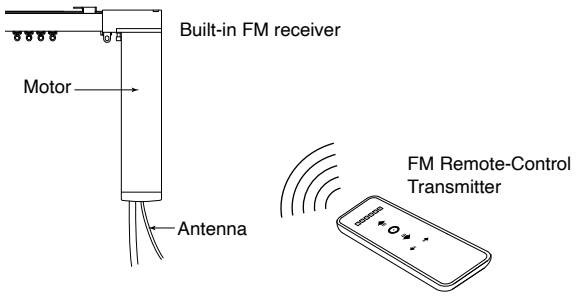


Function 2: "Slow start" and "Slow stop" functions

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

Function 3: A built-in FM Remote-Control Receiver

The new motor utilises a built-in FM receiver for control.

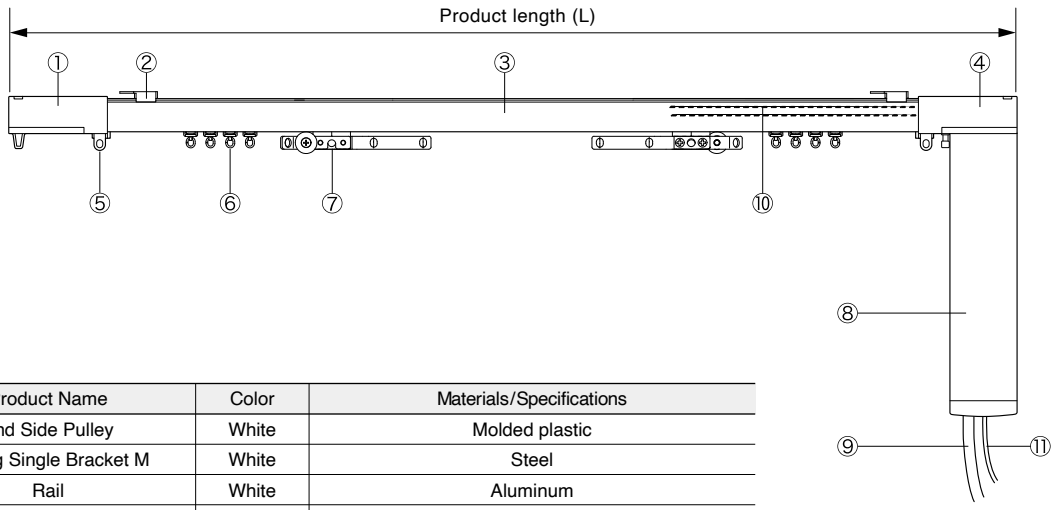


Function 4: Dry and Wet contact

Ti-8040 can be operated by dry (no-voltage) and wet (high voltage) contact.

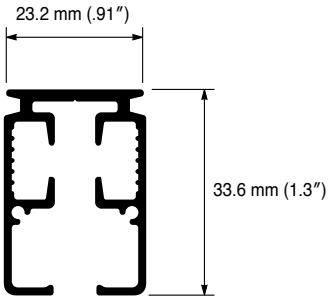
Product Overall View and Names of Parts

Ti-8040

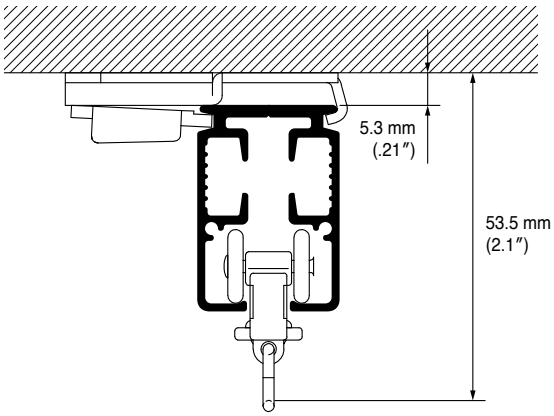


No.	Product Name	Color	Materials/Specifications
①	End Side Pulley	White	Molded plastic
②	Ceiling Single Bracket M	White	Steel
③	Rail	White	Aluminum
④	Motor Side Pulley	White	Molded plastic
⑤	Stop	Silver	Steel
⑥	Noiseless Roller	Natural	Molded plastic
⑦	Pilot Roller Set	Silver	Steel, Molded plastic
⑧	Motor	White	Aluminum, molded plastic (case)
⑨	Electric Cord with the ground	White	Wire (1 m/39″)
⑩	Drive Belt	Green	3-layer structure of steel wires, plastic and fiber
⑪	Antenna	White	Wire

Rail Cross Section

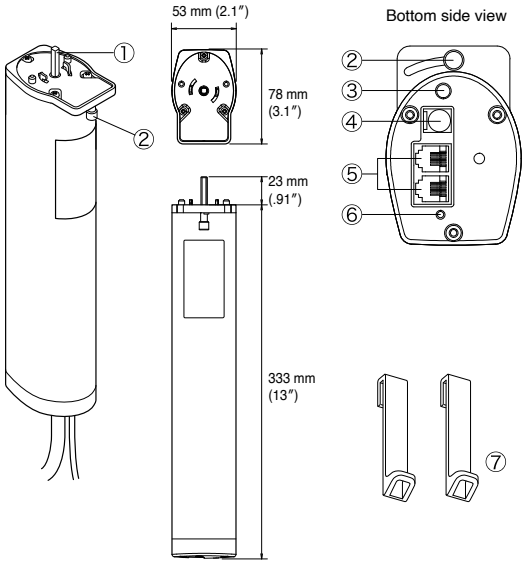


Installation Dimensions



Product View and Specifications

Ti-8040



Parts Name

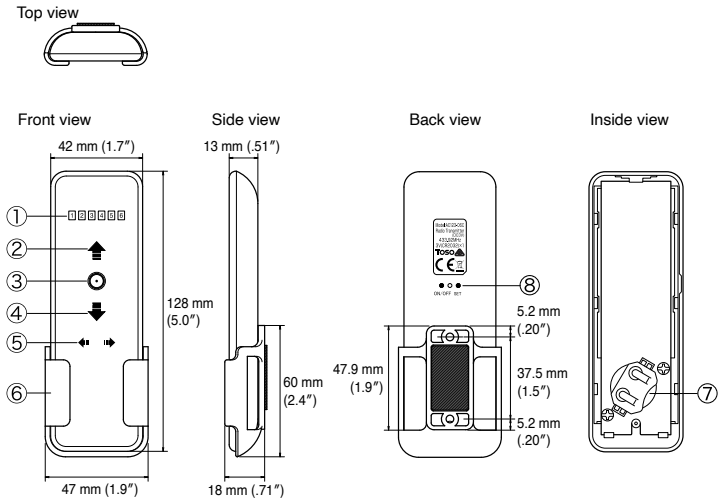
①	Motor Shaft
②	Fixing Lever
③	LED Indicator Lamp (red, blue)
④	Power Supply Terminal
⑤	Motor Cord Terminal (one channel)
⑥	PG Button
⑦	Curtain Hook

Specifications

Rated Power Voltage	AC 100 to 240 V
Rated Power Frequency	50/60 Hz
Power Consumption	During stand by: 0.3 W or lower Max. load operation: 33 W
Operating Voltage	DC 3.3 V
Operating Current	0.5 mA
Power Rating	0.22 A (AC 240 V), 0.5 A (AC 100 V)
Operating Speed	8 sec/m
Rated Current	0.8 N m
Ambient Temperature	0 to 50 °C (non-condensing)
Time Rating	5 min. (continuous operation)
Noise Level	40 dB (in default motor speed)

CE RoHS

FM Remote-Control Transmitter



Parts Name

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

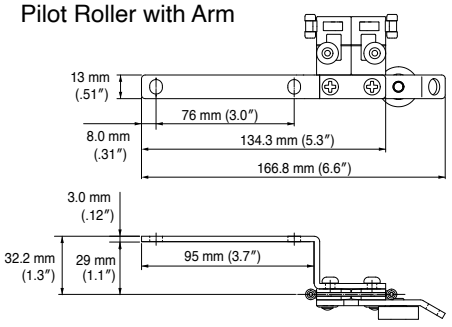
Specifications

Source Voltage	DC 3 V (CR2032 x 1)
Source Current	20 mA or lower
Wave Frequency	433.92 MHz
Number of Channels	1 to 6 (ALL for 6 CH)
Ambient Temperature	-10 to 50 °C (Non-condensing)
Reaching Distance	30 m (varies depending on the condition)
Product Size	W 42 mm x H 128 mm x D 13 mm
Product Weight	Approx. 58 g

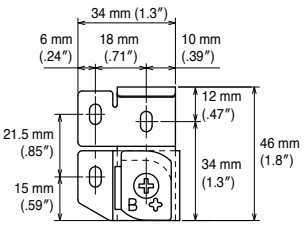
CE RoHS

Parts Size

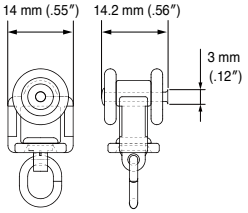
Pilot Roller with Arm



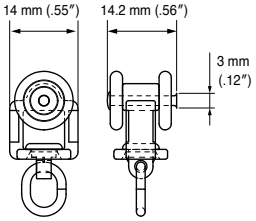
Ceiling Single Bracket M



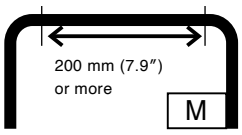
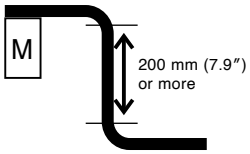
Noiseless Roller



New Delac Roller



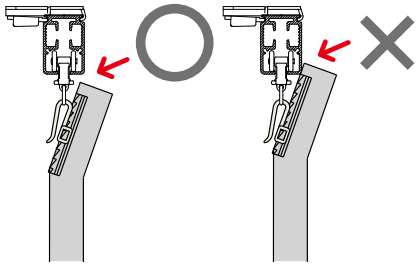
Applicable Range

Specifications			Curtain Weight *5	Product Length
Straight		One-way Draw	40 kg (88 lb)	1,000–10,000 mm (39–394″)
		Two-way Draw	40 kg (88 lb) [One-way Draw: 20 kg (44 lb)]	
Single Curve *1	 90° or more (300R/11.8″R, 400R/16″R)	One-way Draw	15 kg (33 lb)	1,200–10,000 mm (47–394″)
		Two-way Draw	15 kg (33 lb) [One-way Draw: 7 kg (15.4 lb)]	
Two Curves *2	• U-shaped  90° or more (300R/11.8″R, 400R/16″R) • S-shaped  *4	One-way Draw	15 kg (33 lb)	1,500–6,000 mm (59–236″)
		Two-way Draw	15 kg (33 lb) [One-way Draw: 7 kg (15.4 lb)]	
Overall Curve Half *3	 1,000R (39″R) or more	One-way Draw	15 kg (33 lb)	1,000–6,000 mm (39–236″)
		Two-way Draw	15 kg (33 lb) [One-way Draw: 7 kg (15.4 lb)]	

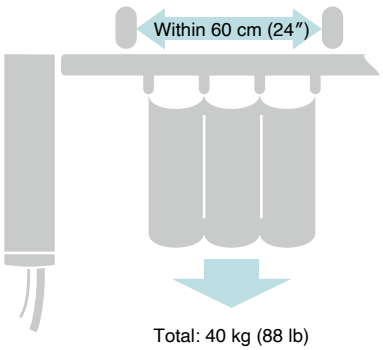
*1 With regular curve radius of 300R (11.8″R) or 400R (16″R), curve bending is available in the range of 90° to 179°.
*2 With regular curve radius of 300R (11.8″R) or 400R (16″R), curve bending is available in the range of 90° to 179°.
*3 Overall curve half is available with a curve radius of 1,000R (39″R) or more. The number of splice is one piece only, and two tracks need to be spliced in the center.
*4 A splice between two curves requires at least 400 mm (16″) of a straight portion, and a non-splice between two curves requires at least 200 mm (7.9″) of a straight portion.
*5 An allowable curtain load per roller is 1.5 kg (3.3 lb) or less.

⚠ Caution

Do not put the load on the Roller, install so the curtain does not touch the Rail for prevent the occurrence of additional friction.



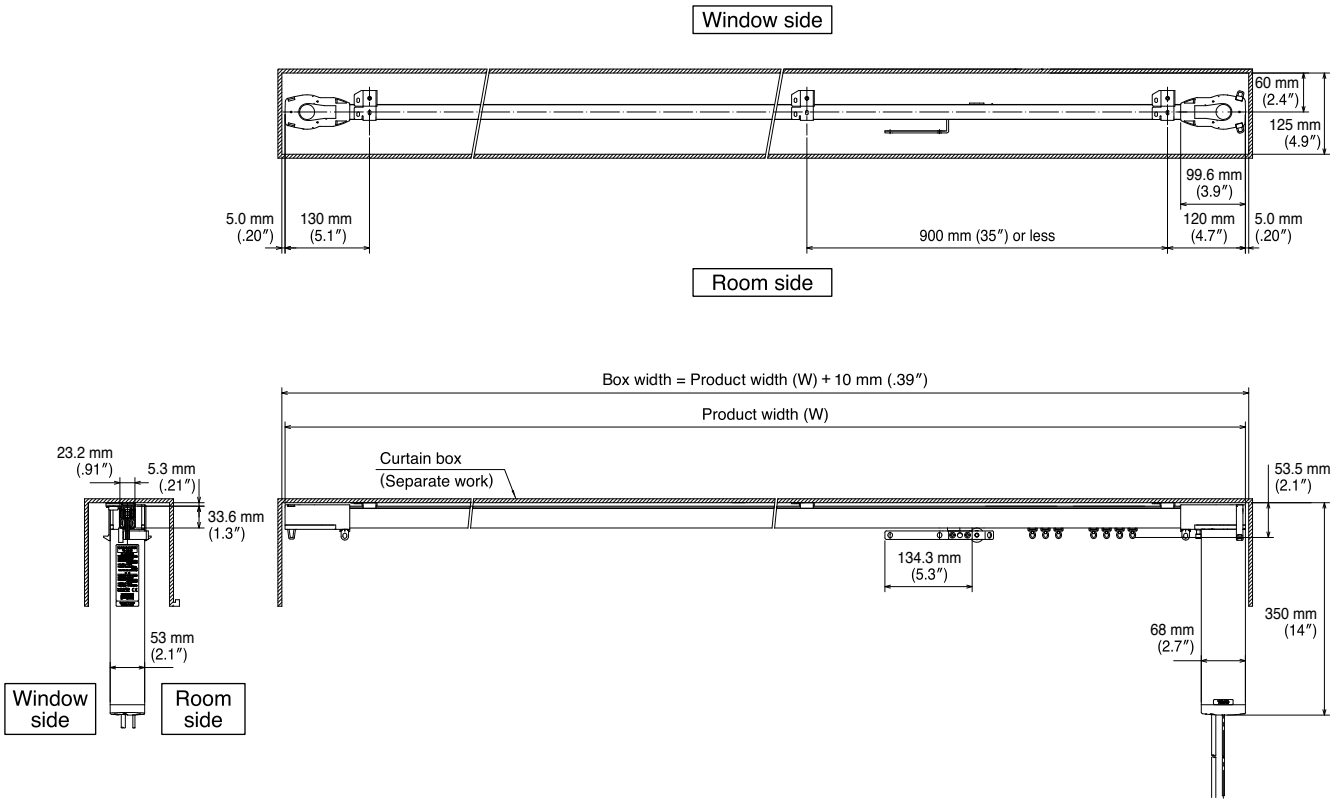
Bracket Installation Interval and Allowable Curtain Load



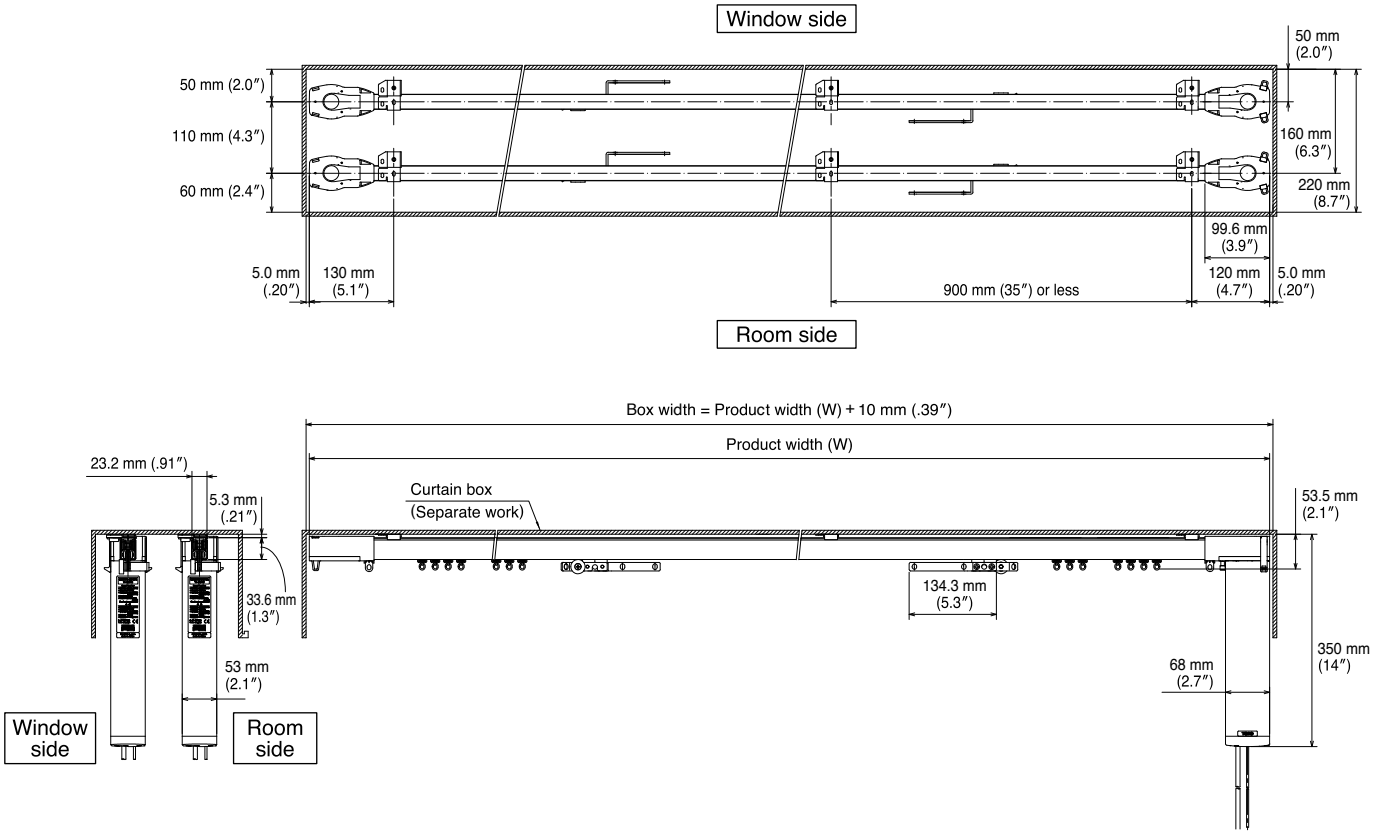
Total: 40 kg (88 lb)

Installation Dimensions and Diagram

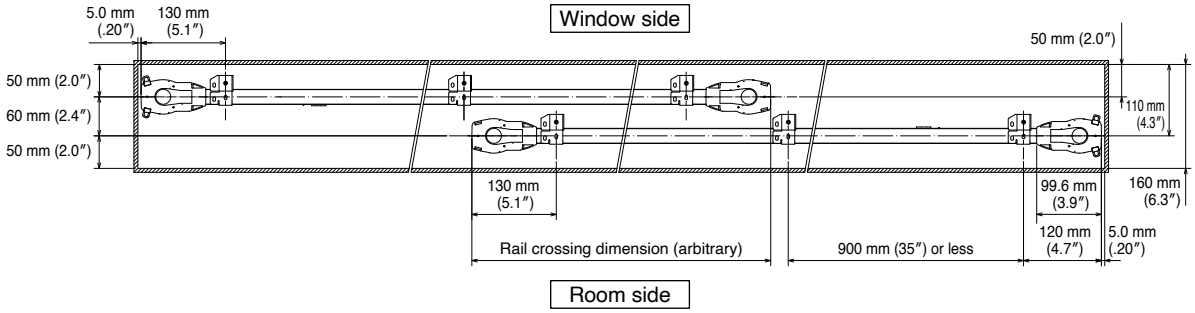
One-way draw: ceiling single attachment

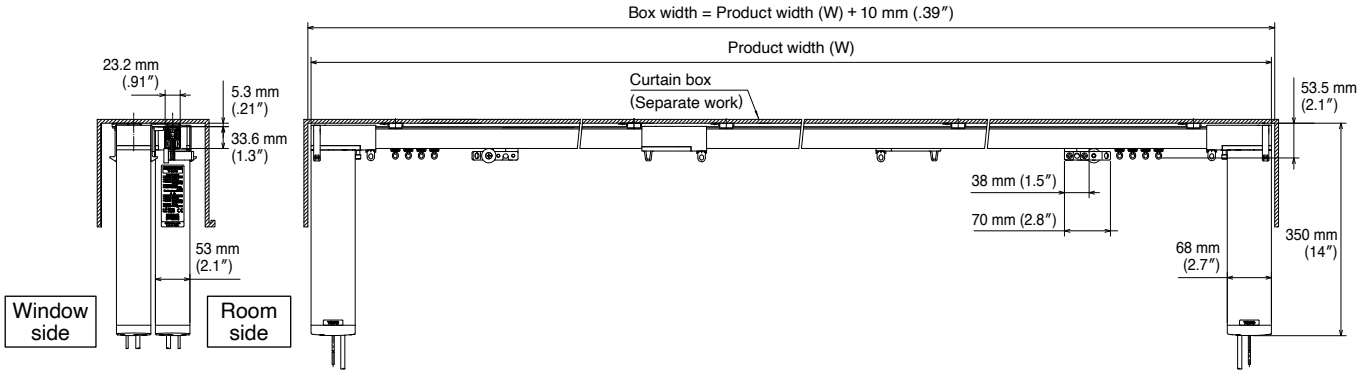


Two-way draw: ceiling double attachment

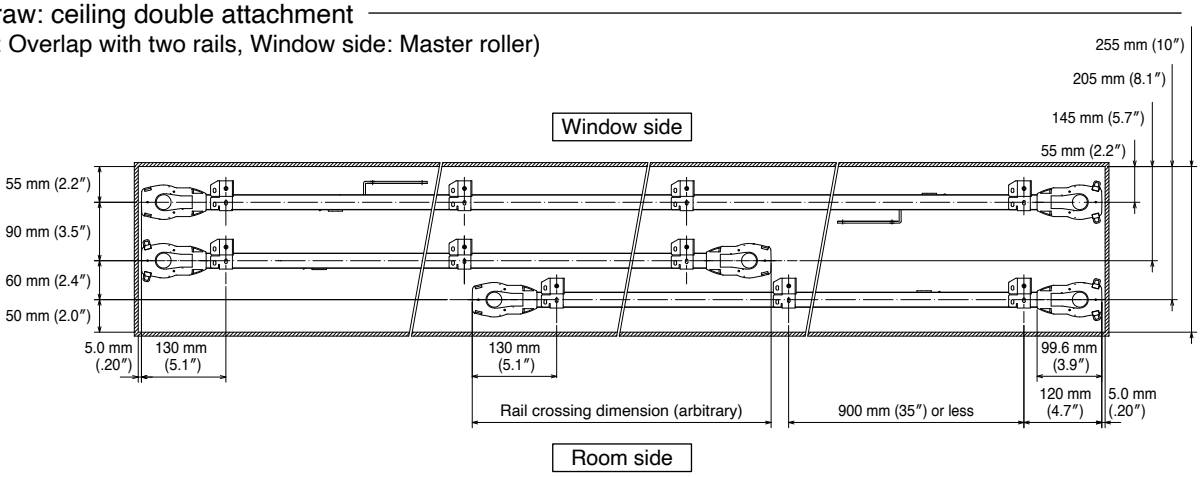


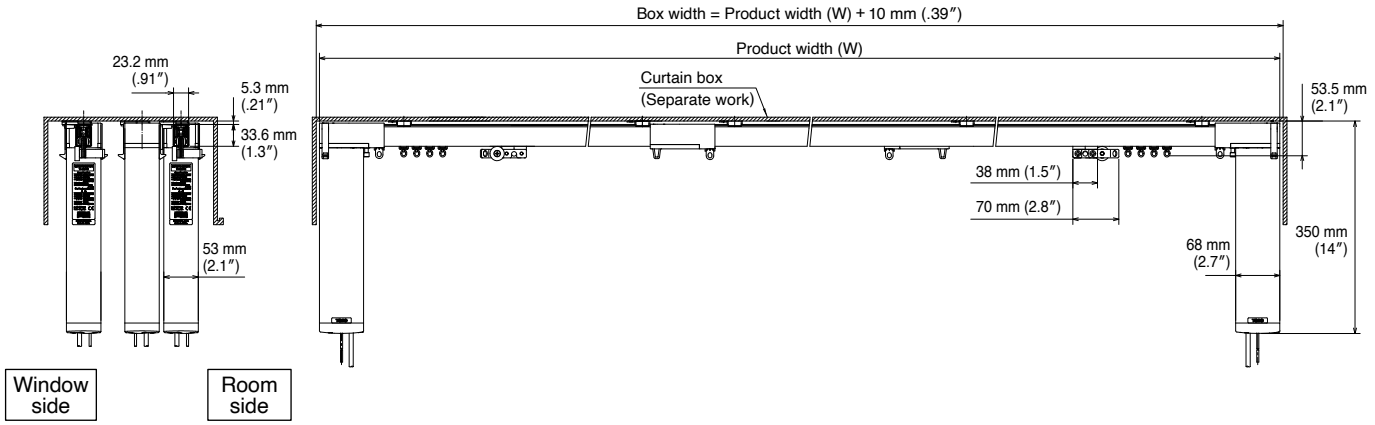
Two-way draw: ceiling double attachment
(Overlap rail)



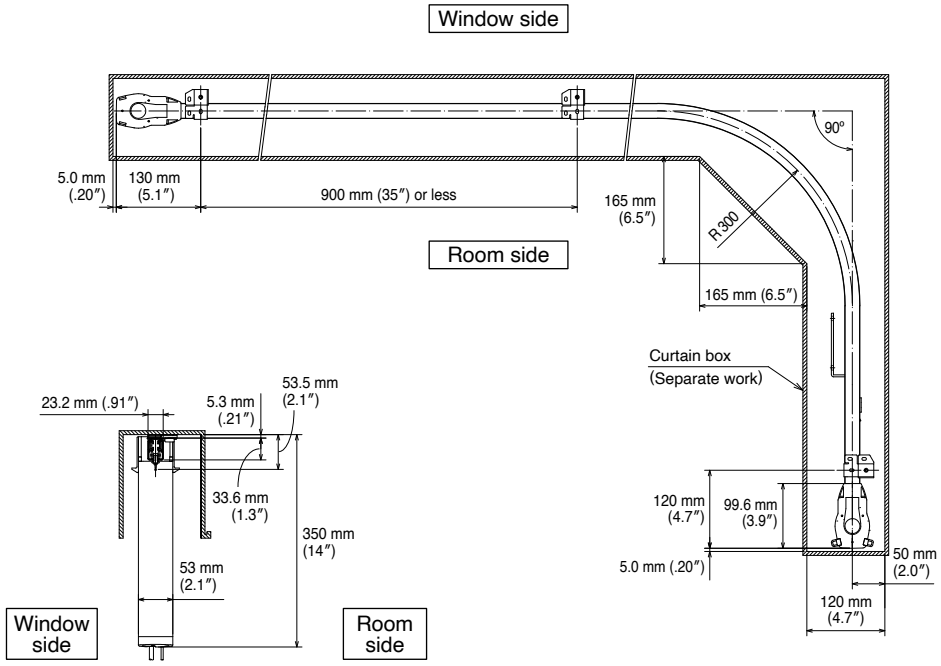


Two-way draw: ceiling double attachment
(Room side: Overlap with two rails, Window side: Master roller)

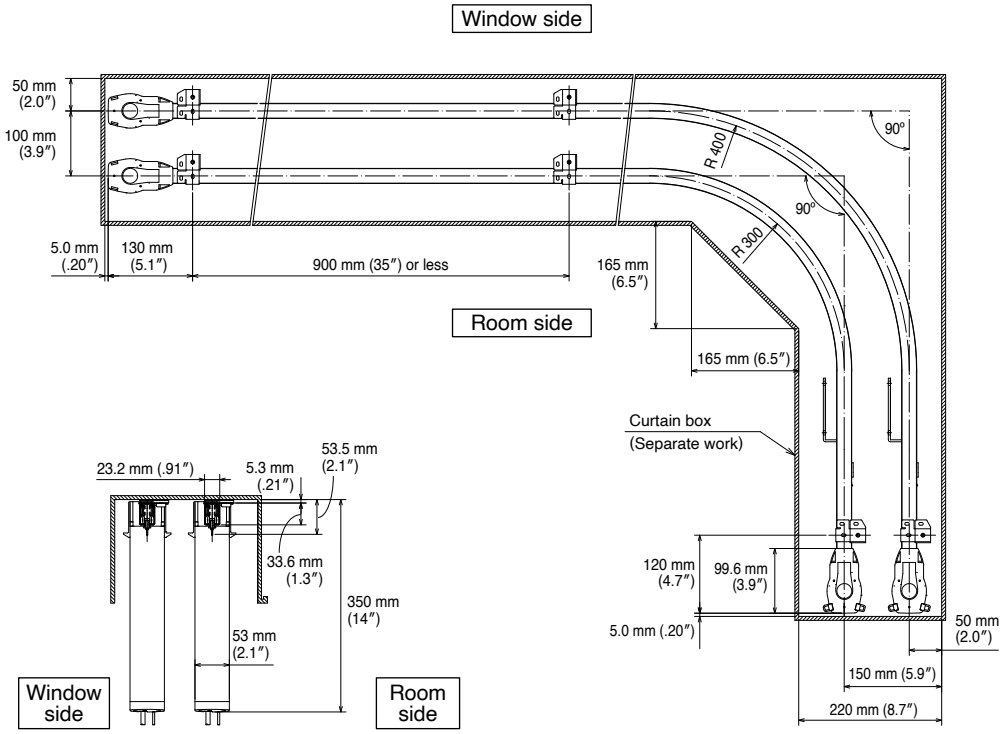




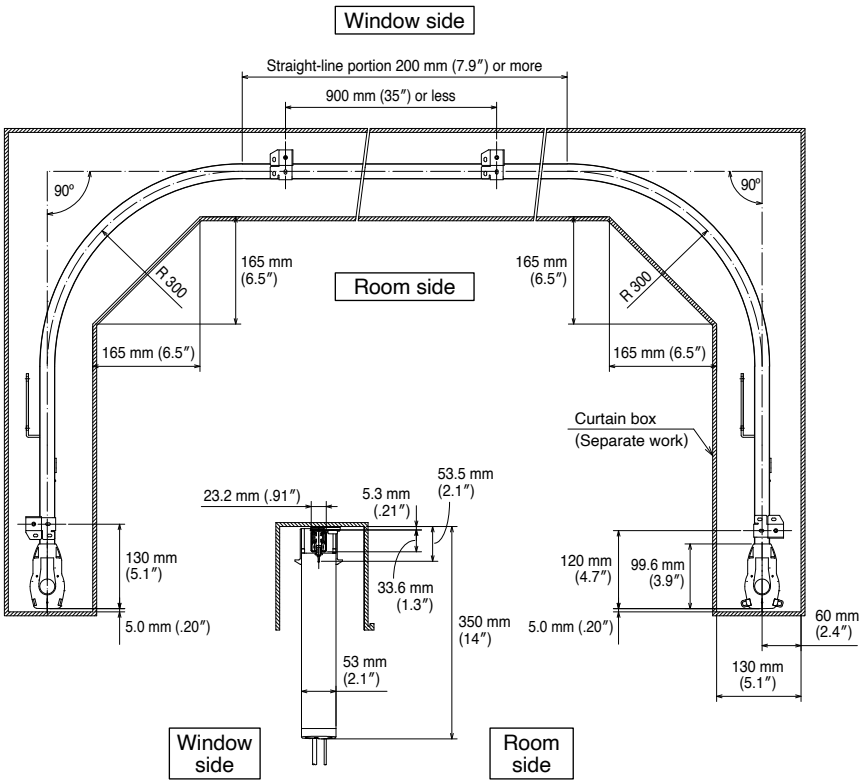
Single curve one-way draw: ceiling single attachment



Single curve one-way draw: ceiling double attachment

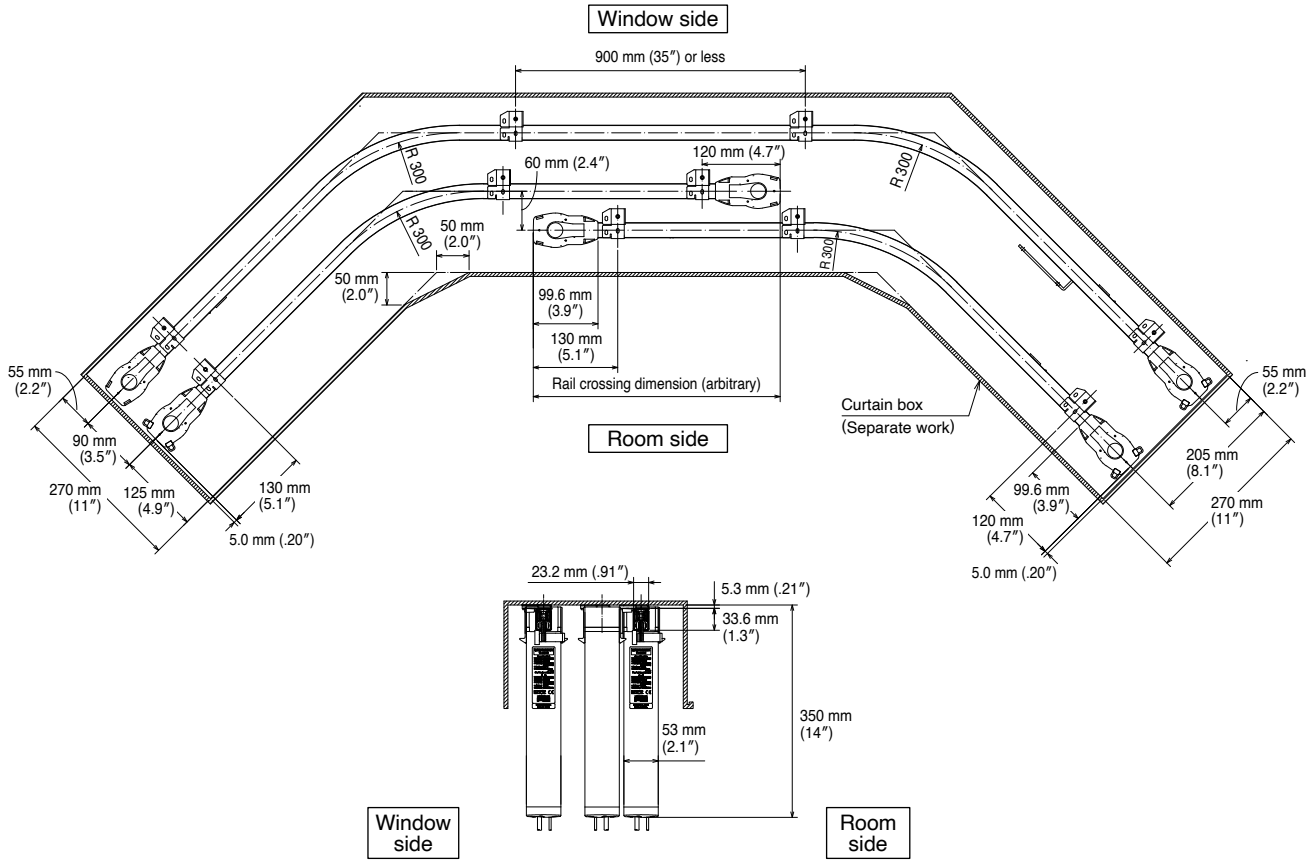


Two curves two-way draw: ceiling single attachment

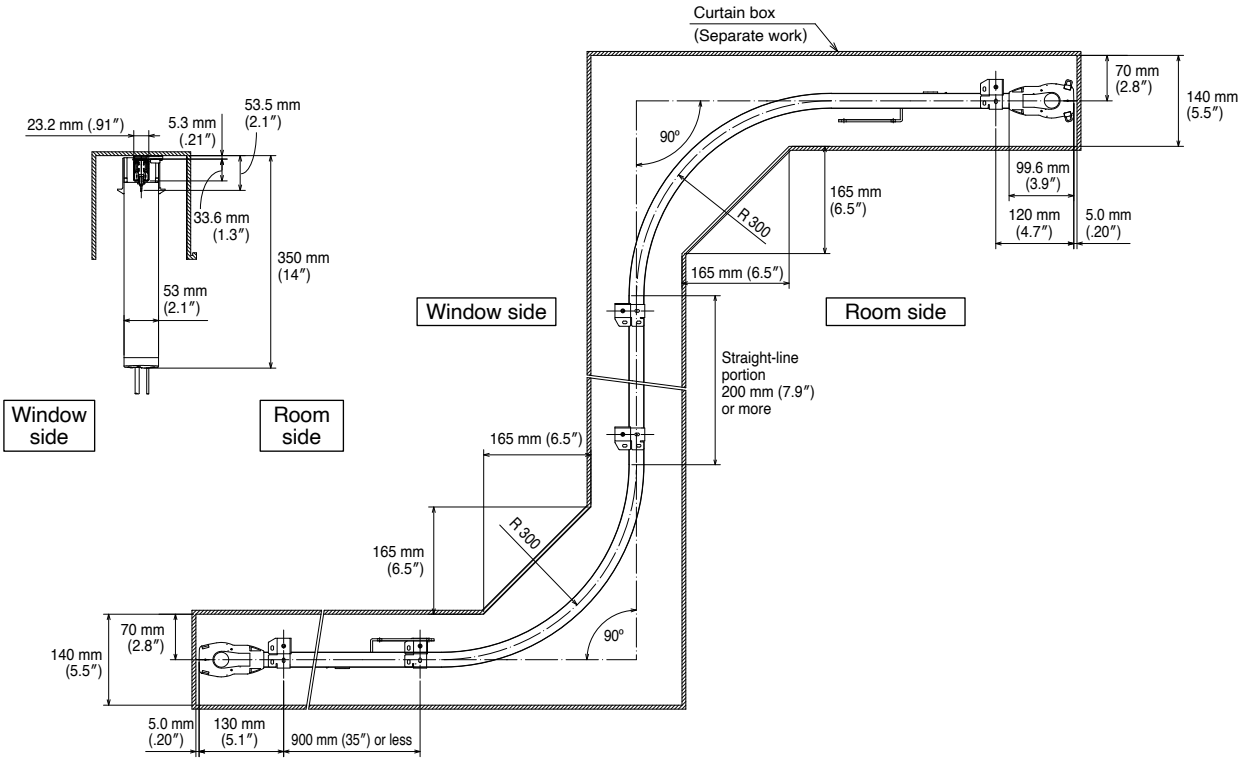


Two curves one-way draw: ceiling double attachment

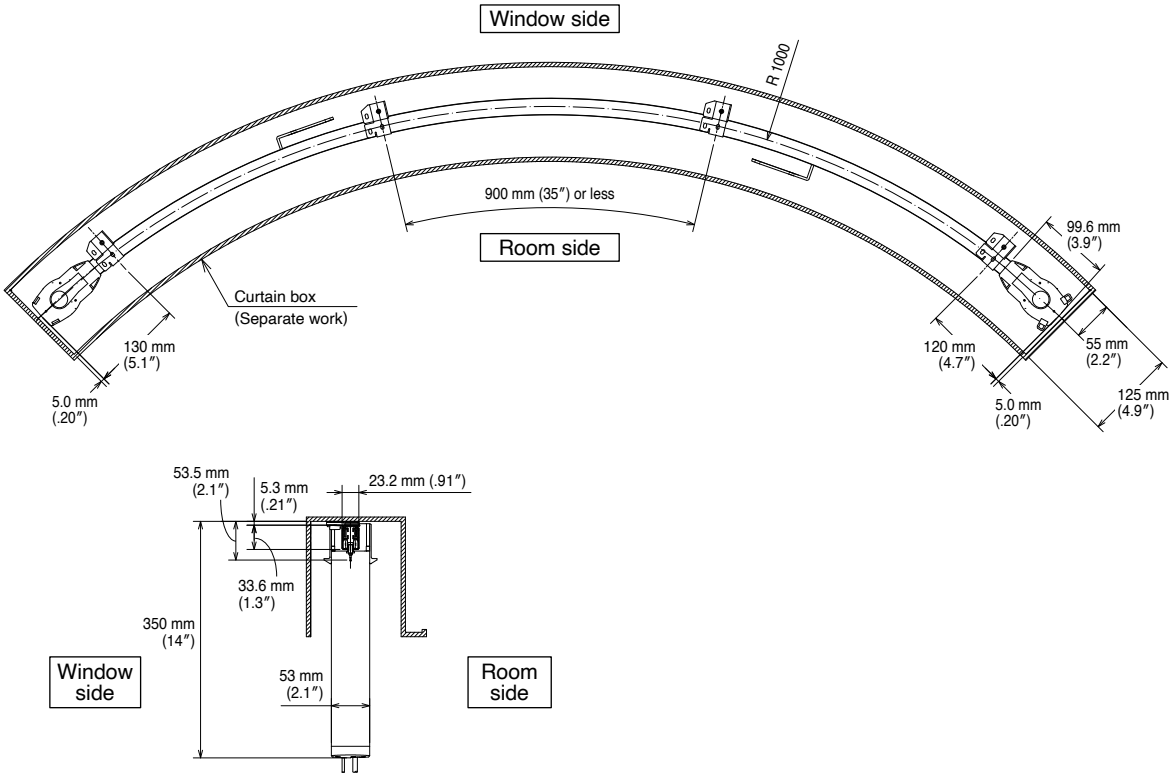
(Room side: Overlap with two rails, Window side: Master roller)



Two curves (S-shaped) two-way draw: ceiling single attachment

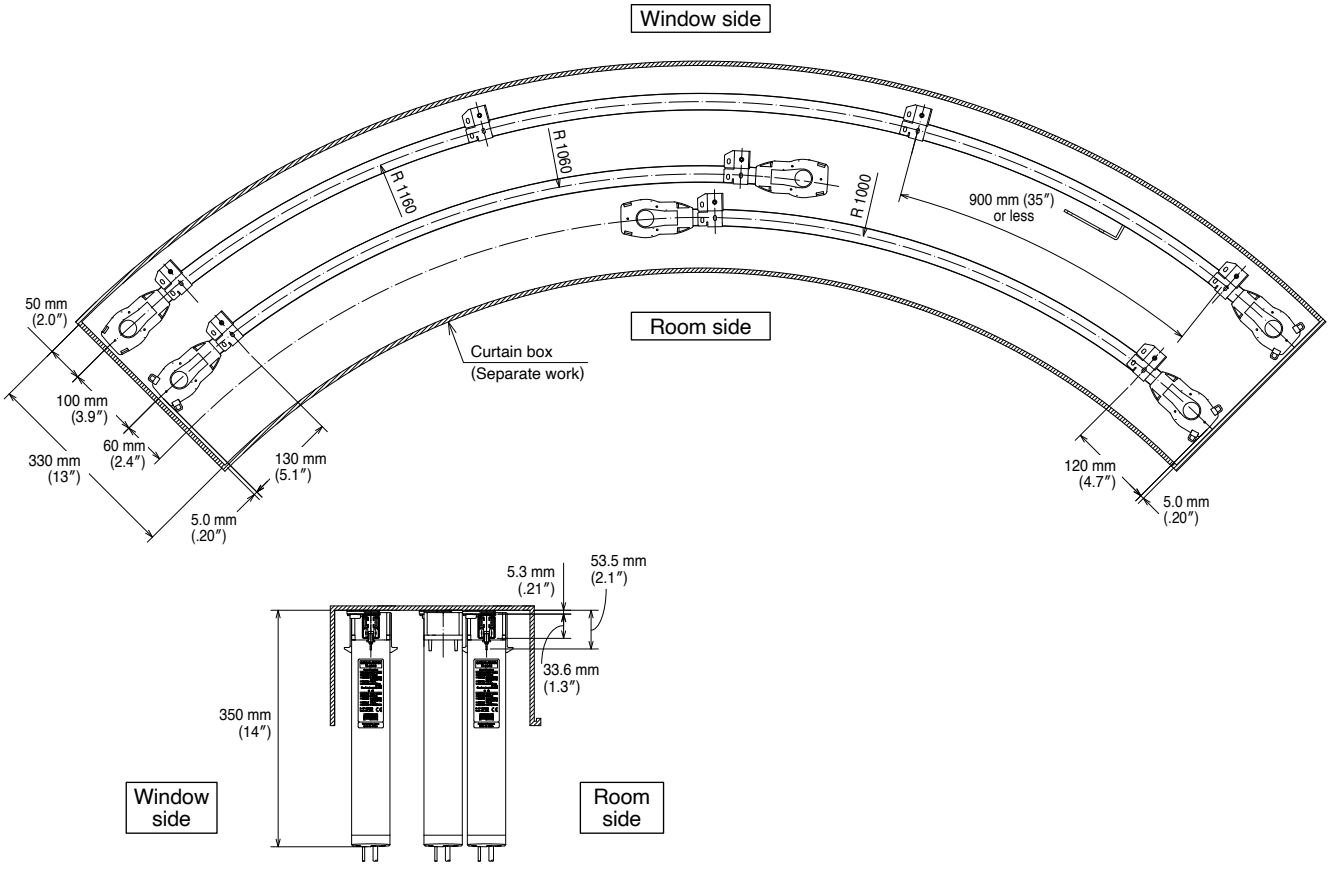


Overall curve two-way draw: ceiling single attachment



Overall curve half one-way draw: ceiling double attachment

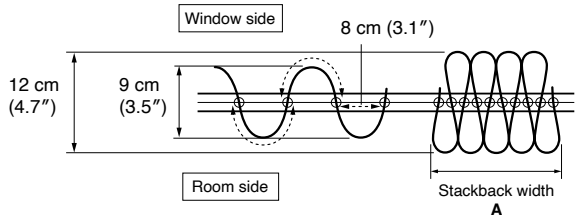
(Room side: Overlap with two rails, Window side: Master roller)



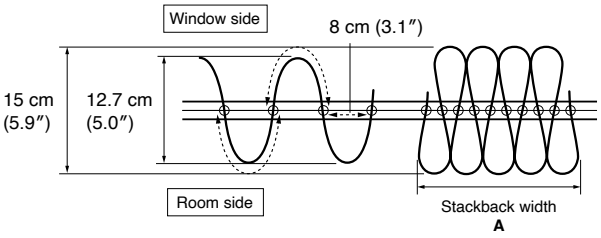
Required Components and Installation Dimensions

When using the 8 cm (3.1″) pitch for Two-way Operation

Wave Style Composition of 1.5 Times Fullness



Wave Style Composition of 1.875 Times Fullness

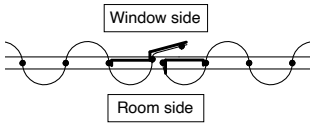


Number of the Gather Hook / Finished curtain width / Stackback width



Smart Wave Master Roller for black-out

Two-way operation



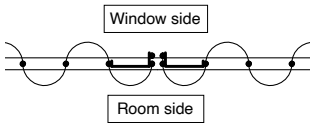
Curtain rail length	200 cm		300 cm		400 cm		500 cm		600 cm		700 cm		800 cm		900 cm	
	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side
Number of the Gather Hook	17 pcs.	16 pcs.	23 pcs.	22 pcs.	29 pcs.	28 pcs.	35 pcs.	34 pcs.	43 pcs.	42 pcs.	49 pcs.	48 pcs.	55 pcs.	54 pcs.	61 pcs.	60 pcs.
Finished curtain width / magnification : 1.5x	193 cm (76″)	172 cm (67.7″)	265 cm (104.3″)	244 cm (96.1″)	337 cm (132.7″)	316 cm (124.4″)	409 cm (161″)	388 cm (152.8″)	505 cm (198.8″)	484 cm (190.6″)	577 cm (227.2″)	556 cm (218.9″)	649 cm (255.5″)	628 cm (247.2″)	721 cm (283.9″)	700 cm (275.6″)
Finished curtain width / magnification : 1.875x	229 cm (90.2″)	208 cm (81.9″)	319 cm (125.6″)	298 cm (117.3″)	409 cm (161″)	388 cm (152.8″)	499 cm (196.5″)	478 cm (188.2″)	619 cm (243.7″)	598 cm (235.4″)	709 cm (279.1″)	688 cm (270.9″)	799 cm (314.6″)	778 cm (306.3″)	889 cm (350″)	868 cm (347.1″)
Stackback width **A**	43 cm (16.9″)	35 cm (13.9″)	51 cm (20.2″)	44 cm (17.2″)	60 cm (23.5″)	52 cm (20.6″)	68 cm (26.8″)	61 cm (23.9″)	79 cm (31.2″)	72 cm (28.3″)	88 cm (34.5″)	80 cm (31.6″)	96 cm (37.8″)	89 cm (34.9″)	105 cm (41.1″)	97 cm (38.2″)

*Required number of the roller (left side): number of the Gather Hook – 6 pcs.
*Required number of the roller (right side): number of the Gather Hook – 5 pcs.



Smart Wave Short Arm Roller for Sheer

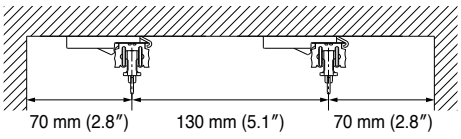
Two-way operation



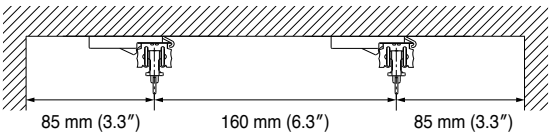
Curtain rail length	200 cm		300 cm		400 cm		500 cm		600 cm		700 cm		800 cm		900 cm	
	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side
Number of the Gather Hook	16 pcs.	16 pcs.	22 pcs.	22 pcs.	28 pcs.	28 pcs.	34 pcs.	34 pcs.	42 pcs.	42 pcs.	48 pcs.	48 pcs.	54 pcs.	54 pcs.	60 pcs.	60 pcs.
Finished curtain width / magnification : 1.5x	172 cm (67.7″)	172 cm (67.7″)	244cm (96.1″)	244 cm (96.1″)	316 cm (124.4″)	316 cm (124.4″)	388 cm (152.8″)	388 cm (152.8″)	484 cm (190.6″)	484 cm (190.6″)	556 cm (218.9″)	556 cm (218.9″)	628 cm (247.2″)	628 cm (247.2″)	700 cm (275.6″)	700 cm (275.6″)
Finished curtain width / magnification : 1.875x	208 cm (81.9″)	208 cm (81.9″)	298 cm (117.3″)	298 cm (117.3″)	388 cm (152.8″)	388 cm (152.8″)	478 cm (188.2″)	478 cm (188.2″)	598 cm (235.4″)	598 cm (235.4″)	688 cm (270.9″)	688 cm (270.9″)	778 cm (306.3″)	778 cm (306.3″)	868 cm (347.1″)	868 cm (347.1″)
Stackback width **A**	35 cm (13.9″)	35 cm (13.9″)	44 cm (17.2″)	44 cm (17.2″)	52 cm (20.6″)	52 cm (20.6″)	61 cm (23.9″)	61 cm (23.9″)	72 cm (28.3″)	72 cm (28.3″)	80 cm (31.6″)	80 cm (31.6″)	89 cm (34.9″)	89 cm (34.9″)	97 cm (38.2″)	97 cm (38.2″)

*Required number of the roller (left side): number of the Gather Hook – 5 pcs.
*Required number of the roller (right side): number of the Gather Hook – 5 pcs.

Installation Dimension of 1.5 Times Fullness

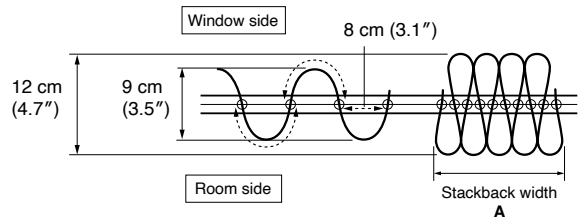


Installation Dimension of 1.875 Times Fullness

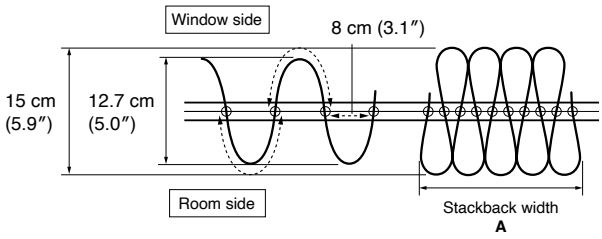


When using the 8 cm (3.1″) pitch for One-way Operation

Wave Style Composition of 1.5 Times Fullness



Wave Style Composition of 1.875 Times Fullness

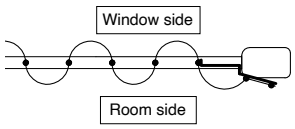


Number of the Gather Hook / Finished curtain width / Stackback width



One-way operation

Smart Wave Master Roller for black-out



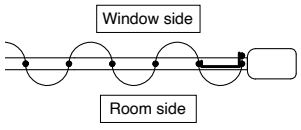
Curtain rail length	200 cm	300 cm	400 cm	500 cm	600 cm	700 cm	800 cm	900 cm
Number of the Gather Hook	29 pcs.	43 pcs.	55 pcs.	67 pcs.	79 pcs.	93 pcs.	105 pcs.	117 pcs.
Finished curtain width / magnification : 1.5x	337 cm (132.7″)	505 cm (198.8″)	649 cm (255.5″)	793 cm (312.2″)	937 cm (368.9″)	1,105 cm (435″)	1,249 cm (491.7″)	1,393 cm (548.4″)
Finished curtain width / magnification : 1.875x	409 cm (161″)	619 cm (243.7″)	799 cm (314.6″)	979 cm (385.4″)	1,159 cm (456.3″)	1,369 cm (539″)	1,549 cm (609.8″)	1,729 cm (680.7″)
Stackback width **A**	60 cm (23.5″)	79 cm (31.2″)	96 cm (37.8″)	113 cm (44.4″)	130 cm (51.1″)	149 cm (58.8″)	166 cm (65.4″)	183 cm (72″)

*Required number of the roller: number of the Gather Hook – 6 pcs.



One-way operation

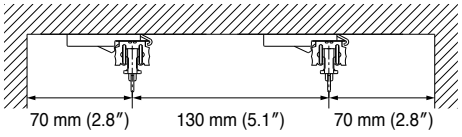
Smart Wave Short Arm Roller



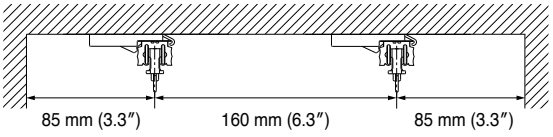
Curtain rail length	200 cm	300 cm	400 cm	500 cm	600 cm	700 cm	800 cm	900 cm
Number of the Gather Hook	28 pcs.	42 pcs.	54 pcs.	66 pcs.	78 pcs.	92 pcs.	104 pcs.	116 pcs.
Finished curtain width / magnification : 1.5x	316 cm (124.4″)	484 cm (190.6″)	628 cm (247.2″)	772 cm (303.9″)	916 cm (360.6″)	1,084 cm (426.8″)	1,228 cm (483.5″)	1,372 cm (540.2″)
Finished curtain width / magnification : 1.875x	388 cm (152.8″)	598 cm (235.4″)	778 cm (306.3″)	958 cm (377.2″)	1,138 cm (448″)	1,348 cm (530.7″)	1,528 cm (601.6″)	1,708 cm (672.4″)
Stackback width **A**	52 cm (20.6″)	72 cm (28.3″)	89 cm (34.9″)	105 cm (41.5″)	122 cm (48.1″)	142 cm (55.8″)	159 cm (62.4″)	175 cm (69.1″)

*Required number of the roller: number of the Gather Hook – 5 pcs.

Installation Dimension of 1.5 Times Fullness

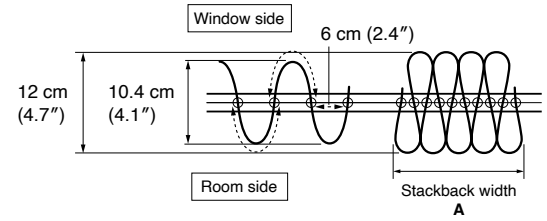


Installation Dimension of 1.875 Times Fullness

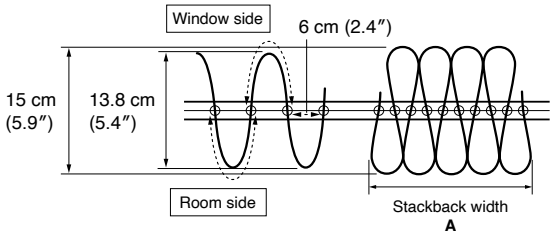


When using the 6 cm (2.4″) pitch for Two-way Operation

Wave Style Composition of 2.0 Times Fullness



Wave Style Composition of 2.5 Times Fullness

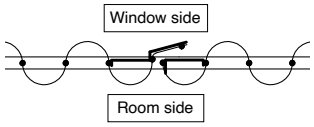


Number of the Gather Hook / Finished curtain width / Stackback width



Smart Wave Master Roller for black-out

Two-way operation



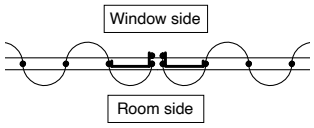
Curtain rail length	200 cm		300 cm		400 cm		500 cm		600 cm		700 cm		800 cm		900 cm	
	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side
Number of the Gather Hook	21 pcs.	20 pcs.	29 pcs.	28 pcs.	37 pcs.	36 pcs.	45 pcs.	44 pcs.	55 pcs.	54 pcs.	63 pcs.	62 pcs.	71 pcs.	70 pcs.	79 pcs.	78 pcs.
Finished curtain width / magnification : 2.0x	241 cm (94.9″)	220 cm (86.6″)	337 cm (132.7″)	316 cm (124.4″)	433 cm (170.5″)	412 cm (162.2″)	529 cm (208,3″)	508 cm (200″)	649 cm (255.5″)	628 cm (247.2″)	745 cm (293.3″)	724 cm (285″)	841 cm (331.1″)	820 cm (322.8″)	937 cm (368.9″)	916 cm (360.6″)
Finished curtain width / magnification : 2.5x	289 cm (113.8″)	268 cm (105.5″)	409 cm (161″)	388 cm (152.8″)	529 cm (208.3″)	508 cm (200″)	649 cm (255.5″)	628 cm (247.2″)	799 cm (314.6″)	778 cm (306.3″)	919 cm (361.8″)	898 cm (353.5″)	1,039 cm (409.1″)	1,018 cm (400.8″)	1,159 cm (456.3″)	1,138 cm (448″)
Stackback width **A**	49 cm (19.1″)	41 cm (16.1″)	60 cm (23.5″)	52 cm (27.9″)	71 cm (23.5″)	63 cm (25″)	82 cm (32.3″)	75 cm (29.4″)	96 cm (37.8″)	89 cm (34.9″)	107 cm (42.2″)	100 cm (39.3″)	119 cm (46.7″)	111 cm (43.7″)	130 cm (51.1″)	122 cm (48.1″)

*Required number of the roller (left side): number of the Gather Hook – 6 pcs.
*Required number of the roller (right side): number of the Gather Hook – 5 pcs.



Smart Wave Short Arm Roller for Sheer

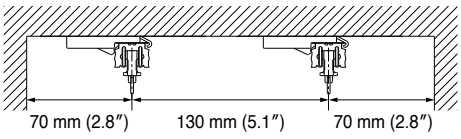
Two-way operation



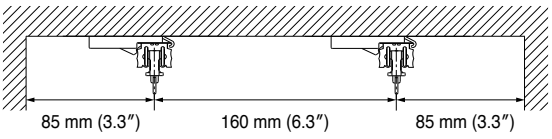
Curtain rail length	200 cm		300 cm		400 cm		500 cm		600 cm		700 cm		800 cm		900 cm	
	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side	Left side	Right side
Number of the Gather Hook	20 pcs.	20 pcs.	28 pcs.	28 pcs.	36 pcs.	36 pcs.	44 pcs.	44 pcs.	54 pcs.	54 pcs.	62 pcs.	62 pcs.	70 pcs.	70 pcs.	78 pcs.	78 pcs.
Finished curtain width / magnification : 2.0x	220 cm (86.6″)	220 cm (86.6″″)	316cm (124.4″)	316 cm (124.4″)	412 cm (162.2″)	412 cm (162.2″)	508 cm (200″)	508 cm (200″)	628 cm (247.2″)	628 cm (247.2″)	724 cm (285″)	724 cm (285″)	820 cm (322.8″)	820 cm (322.8″)	916 cm (360.6″)	916 cm (360.6″)
Finished curtain width / magnification : 2.5x	268 cm (105.5″)	268 cm (105.5″)	388 cm (152.8″)	388 cm (152.8″)	508 cm (200″)	508 cm (200″)	628 cm (247.2″)	628 cm (247.2″)	778 cm (306.3″)	778 cm (306.3″)	898 cm (353.5″)	898 cm (353.5″)	1,018 cm (400.8″)	1,018 cm (400.8″)	1,138 cm (448″)	1,138 cm (448″)
Stackback width **A**	41 cm (16.1″)	41 cm (16.1″)	52 cm (20.6″)	52 cm (20.6″)	63 cm (25″)	63 cm (25″)	75 cm (29.4″)	75 cm (29.4″)	89 cm (34.9″)	89 cm (34.9″)	100 cm (39.3″)	100 cm (39.3″)	111 cm (43.7″)	111 cm (43.7″)	122 cm (48.1″)	122 cm (48.1″)

*Required number of the roller (left side): number of the Gather Hook – 5 pcs.
*Required number of the roller (right side): number of the Gather Hook – 5 pcs.

Installation Dimension of 2.0 Times Fullness

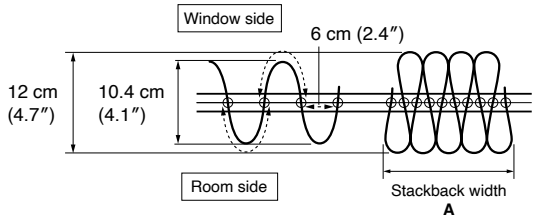


Installation Dimension of 2.5 Times Fullness

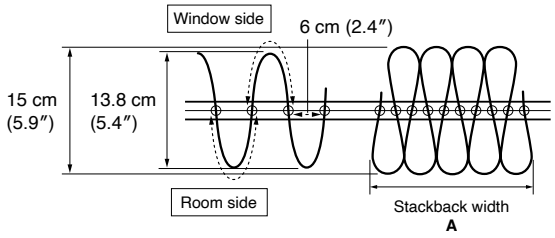


When using the 6 cm (2.4″) pitch for One-way Operation

Wave Style Composition of 2.0 Times Fullness



Wave Style Composition of 2.5 Times Fullness

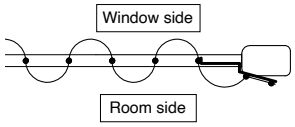


Number of the Gather Hook / Finished curtain width / Stackback width



Smart Wave Master Roller for black-out

One-way operation



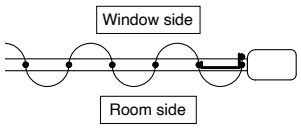
Curtain rail length	200 cm	300 cm	400 cm	500 cm	600 cm	700 cm	800 cm	900 cm
Number of the Gather Hook	37 pcs.	55 pcs.	71 pcs.	87 pcs.	105 pcs.	121 pcs.	137 pcs.	155 pcs.
Finished curtain width / magnification : 2.0x	433 cm (170.5″)	649 cm (255.5″)	841 cm (331.1″)	1,033 cm (406.7″)	1,249 cm (491.7″)	1,441 cm (567.3″)	1,633 cm (642.9″)	1,849 cm (728″)
Finished curtain width / magnification : 2.5x	529 cm (208.3″)	799 cm (314.6″)	1,039 cm (409.1″)	1,279 cm (503.5″)	1,549 cm (609.8″)	1,789 cm (704.3″)	2,029 cm (798.8″)	2,299 cm (905.1″)
Stackback width **A**	71 cm (27.9″)	96 cm (37.8″)	119 cm (46.7″)	141 cm (55.5″)	166 cm (65.4″)	189 cm (74.2″)	211 cm (83″)	236 cm (93″)

*Required number of the roller: number of the Gather Hook – 6 pcs.



Smart Wave Short Arm Roller

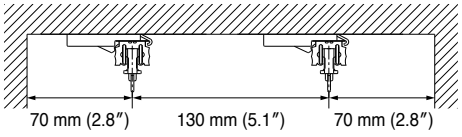
One-way operation



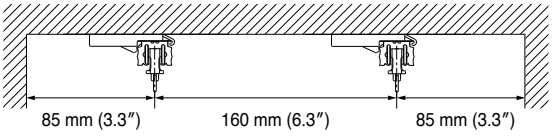
Curtain rail length	200 cm	300 cm	400 cm	500 cm	600 cm	700 cm	800 cm	900 cm
Number of the Gather Hook	36 pcs.	54 pcs.	80 pcs.	86 pcs.	104 pcs.	120 pcs.	136 pcs.	154 pcs.
Finished curtain width / magnification : 2.0x	412 cm (162.2″)	628 cm (247.2″)	820 cm (322.8″)	1,012 cm (398.4″)	1,228 cm (483.5″)	1,420 cm (559.1″)	1,612 cm (634.6″)	1,828 cm (719.7″)
Finished curtain width / magnification : 2.5x	508 cm (200″)	778 cm (306.3″)	1,018 cm (400.8″)	1,258 cm (495.3″)	1,528 cm (601.6″)	1,768 cm (696.1″)	2,008 cm (790.6″)	2,278 cm (896.9″)
Stackback width **A**	63 cm (25″)	89 cm (34.9″)	111 cm (43.7″)	133 cm (52.5″)	159 cm (62.4″)	181 cm (71.3″)	203cm (80.1″)	229 cm (90″)

*Required number of the roller: number of the Gather Hook – 5 pcs.

Installation Dimension of 2.0 Times Fullness



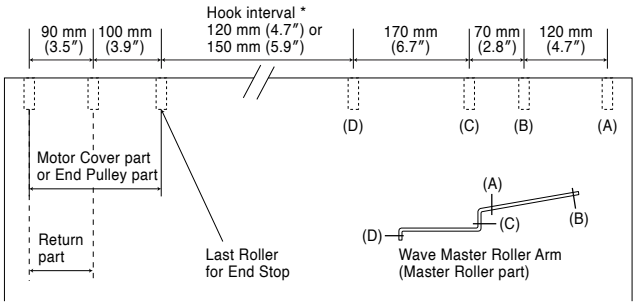
Installation Dimension of 2.5 Times Fullness



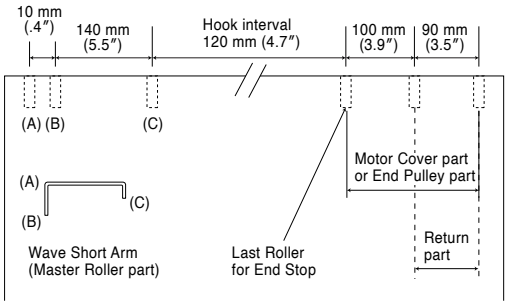
Sewing Instruction

Smart Wave Overlap / Center Open Overlap

Curtain with Overlap Arm



Curtain with Wave Short Arm



Motor Cover part / End Pully part



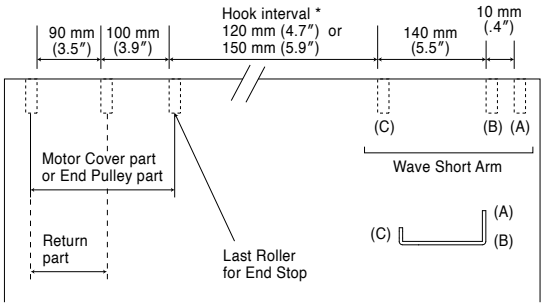
Center part (Overlap Roller part)



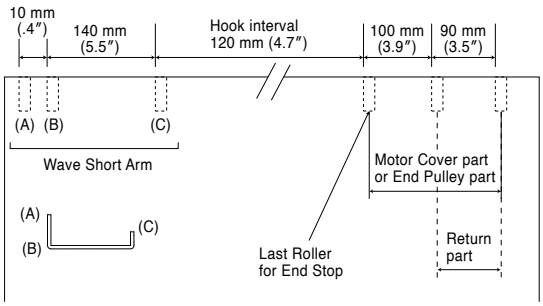
*Hook Interval
- Based on using TOSO Wave TapeII. (Refer P.18–21)
- Depending on the curtain Fullness.

Smart Wave / Center Open

Left-aligned curtains



Right-aligned curtains



Motor Cover part / End Pully part



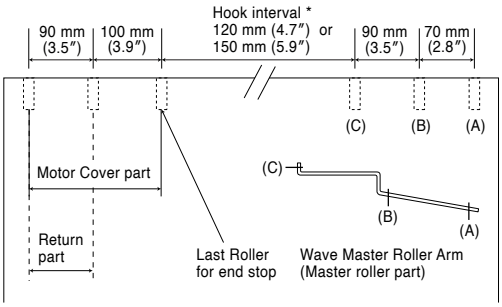
Center part (Short Arm Roller part)



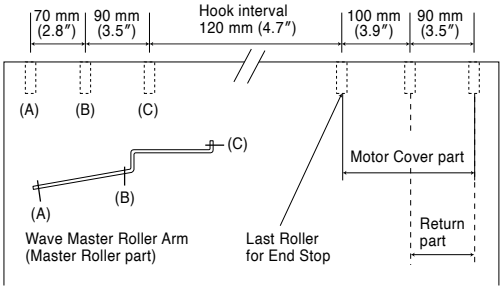
*Hook Interval
- Based on using TOSO Wave TapeII. (Refer P.18–21)
- Depending on the curtain Fullness.

Smart Wave / One-way Open / *Wave Master Roller Arm

Left-aligned Curtains



Right-aligned Curtains



Motor Cover part



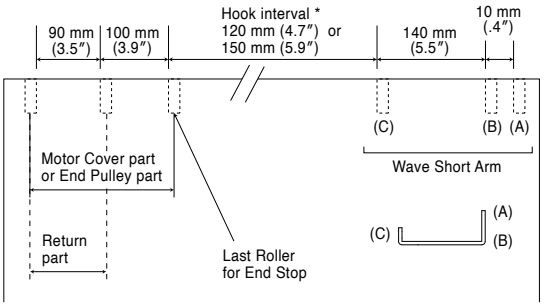
Overlap Roller part



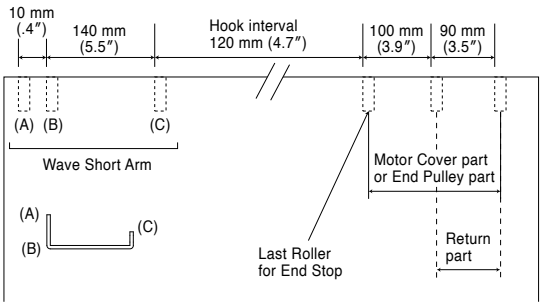
*Hook Interval
- Based on using TOSO Wave TapeII. (Refer P.18–21)
- Depending on the curtain Fullness.

Smart Wave / One-way Open / *Wave Short Arm

Left-aligned curtains



Right-aligned curtains



Motor Cover part



Short Arm Roller part

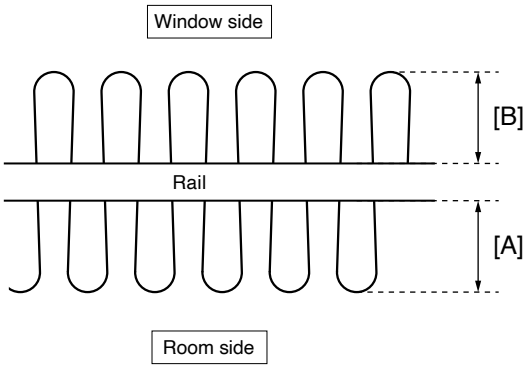


*Hook Interval
- Based on using TOSO Wave TapeII. (Refer P.18–21)
- Depending on the curtain Fullness.

- Neat appearance with wave curtain.
- To completely cover the window, please install a side wall about 150 mm (5.9″) or more from the window on the master roller part.

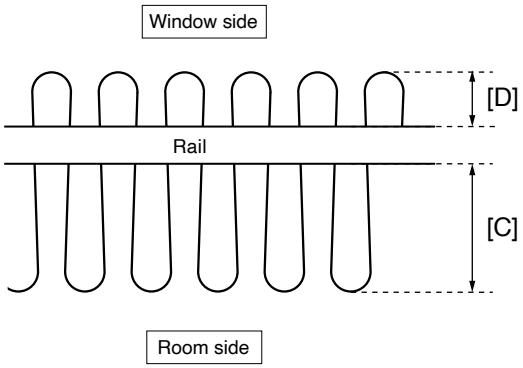
Customize the Wave Depth to Your Preference

Fig. 1 Equal Pleat Size



- Ideal for partitions use
- Both the inside and outside look beautiful

Fig. 2 Unequal Pleat Size



- The design minimizes interference between curtains while beautifully showcasing a deep wave.

Our Wave Tape II allows you to change the hook position in 1 cm increments, enabling you to adjust the depth of drape and sheer pleats to meet your specific needs.

If you would like to reduce a feeling of heaviness or when facing the issue of a narrow curtain box width, our Wave Tape II addresses these problems effectively.

When using the 8 cm (3.1″) pitch

Fullness 1:1.5 Depth of pleat in 12 cm (4.7″)	Equal	Room side: [A] (see Fig. 1)	6 cm (2.3″)
		Window side: [B] (see Fig. 1)	6 cm (2.3″)
	Unequal	Room side: [C] (see Fig. 2)	8 cm (3.1″)
		Window side: [D] (see Fig. 2)	4 cm (1.5″)
Fullness 1:1.875 Depth of pleat in 15 cm (5.9″)	Equal	Room side: [A] (see Fig. 1)	7.5 cm (2.9″)
		Window side: [B] (see Fig. 1)	7.5 cm (2.9″)
	Unequal	Room side: [C] (see Fig. 2)	9.5 cm (3.7″)
		Window side: [D] (see Fig. 2)	5.5 cm (2.1″)

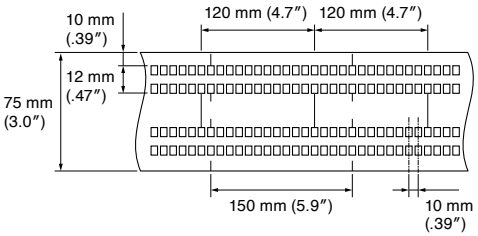
When using the 6 cm (2.4″) pitch

Fullness 1:2.0 Depth of pleat in 12 cm (4.7″)	Equal	Room side: [A] (see Fig. 1)	6 cm (2.3″)
		Window side: [B] (see Fig. 1)	6 cm (2.3″)
	Unequal	Room side: [C] (see Fig. 2)	8 cm (3.1″)
		Window side: [D] (see Fig. 2)	4 cm (1.5″)
Fullness 1:2.5 Depth of pleat in 15 cm (5.9″)	Equal	Room side: [A] (see Fig. 1)	7.5 cm (2.9″)
		Window side: [B] (see Fig. 1)	7.5 cm (2.9″)
	Unequal	Room side: [C] (see Fig. 2)	9.5 cm (3.7″)
		Window side: [D] (see Fig. 2)	5.5 cm (2.1″)

Sewing components to enhance the Smart Wave style

Wave Tape II





Wave Tape II is a tape designed to enhance the suspension of wave curtains, providing a balanced tension and softness.
It allows hook insertion at 1 cm intervals, with markers for hook
lacement at 12 cm and 15 cm intervals.
Feel free to use it at your preferred fullness.

Tape Width	Material	Invisible Pitch Keeper Tape	Fullness	Using Hooks	Measurement from Tape End to Grommet Bottom
75 mm	Polyester 100%	8 cm (3.1″) pitch	1.5 times fullness (with a 12 cm interval)	Gather hook NN-10	8 mm
			1.875 times fullness (with a 15 cm interval)		
		6 cm (2.4″) pitch	2.0 times fullness (with a 12 cm interval)		
			2.5 times fullness (with a 12 cm interval)		



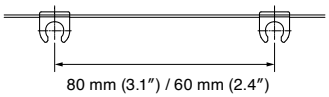
Wave Tape II + Flat Curtain



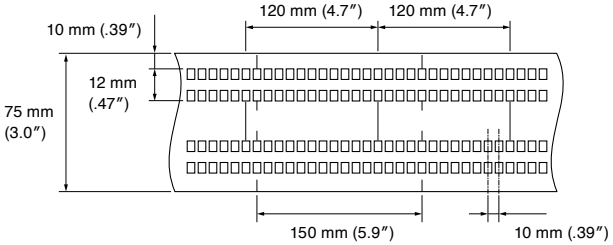
Flat Tape + Flat Curtain

Dimension of Components for Smart Wave Style

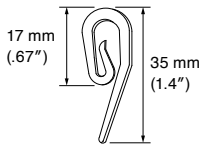
• Invisible Pitch Keeper Tape 80/60



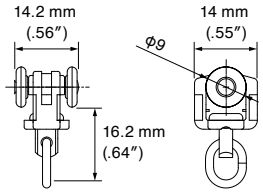
• Wave Tape II



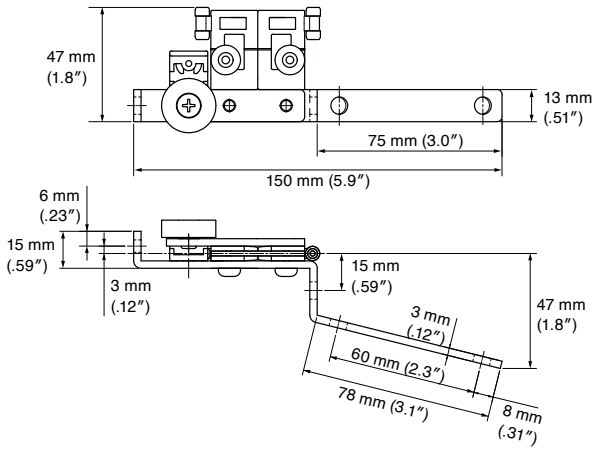
• Gather Hook NN-10



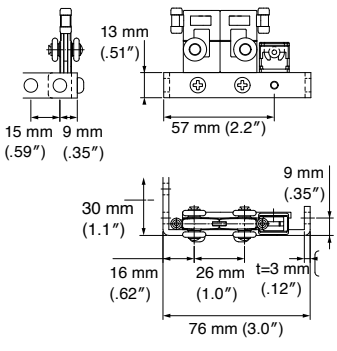
• Smart Wave Roller



• Smart Wave Overlap Roller



• Smart Wave Short Arm Roller



How to Choose Wave Style Curtains

Choose a fabric that creates beautiful waves.



Fabric assessment chart for expressing beautiful waves

	○ Suitable for wave curtain		✕ Not Suitable for wave curtain	
Composition and processing	Sheer with drapability	▶ georgette fabric ▶ vertical stripe pattern	Biased sheer with stiffness/softness	▶ embroidery ▶ opal fabric
	Loosely woven/knit fabric	▶ casement ▶ mesh	Tensioned or uneven weft yarns	▶ organdy ▶ shantung
	Smooth surface fabric	▶ satin	Diagonal weave	▶ herringbone fabric
	Heavy-weighted fabric at the hem	▶ hem embroidery fabric	Fabric with pronounced surface texture	▶ jacquard fabric

Sawing Specifications for Wave Style Hem

	10 cm triple fold	10 cm double fold	Short hem	Weight tape	Woolly lock
Drape	○	◎ Recommendation	—	—	◎ Recommendation
Horizontal lace usage	○	—	◎ Recommendation	△ Opens woth resistance	◎ Recommendation
Vertical lace usage	○	—	◎ Recommendation	△ Opens woth resistance	◎ Recommendation

* The use of weight tape and woolly lock processing may vary depending on the fabric



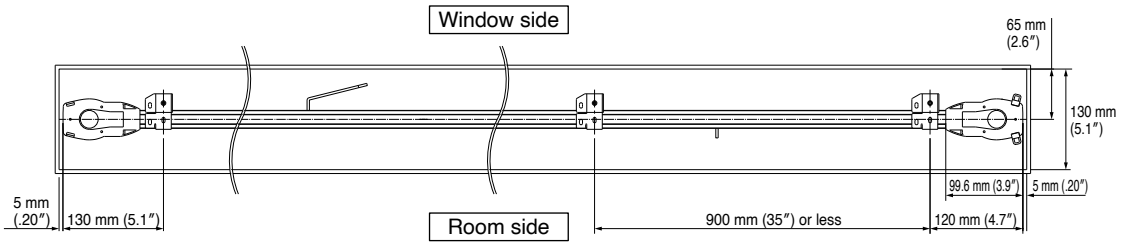


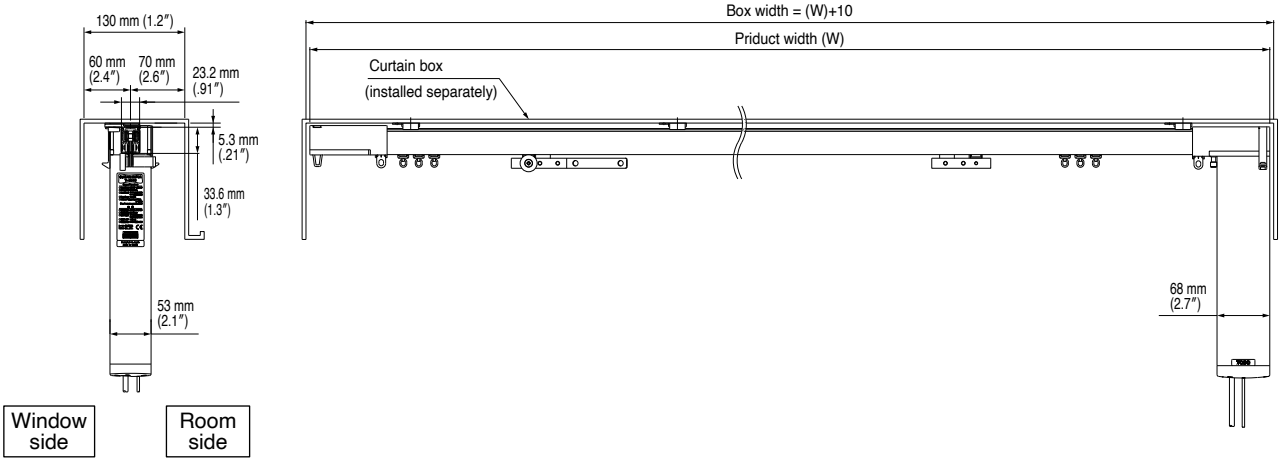




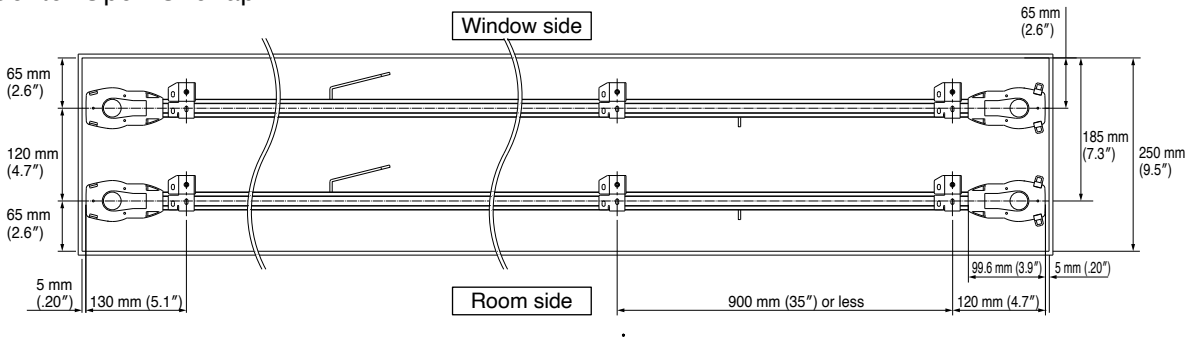
Installation Dimensions and Diagram for Smart Wave Style

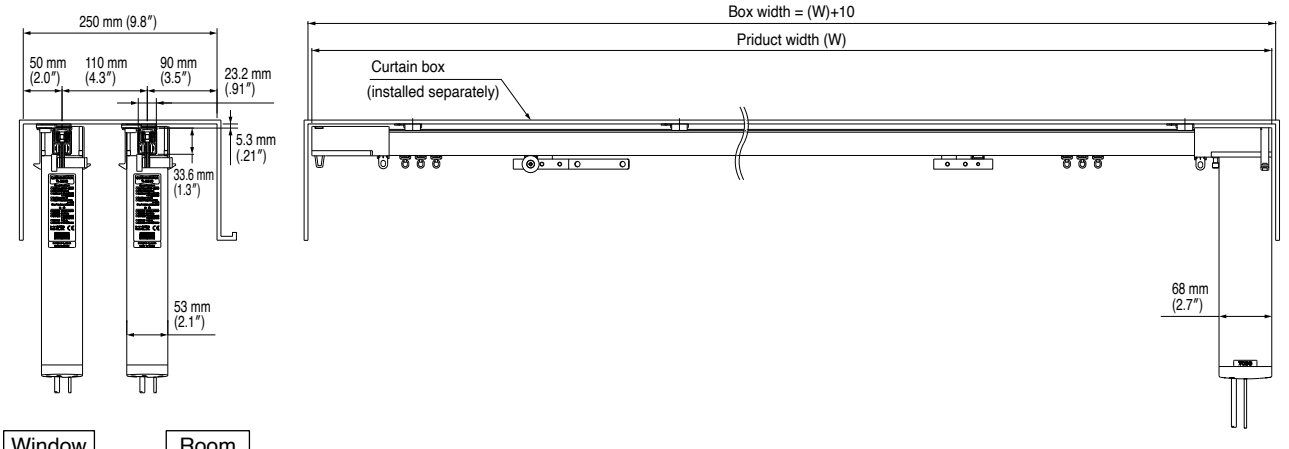
Two-way draw: ceiling single attachment
Smart Wave / Center Open Overlap



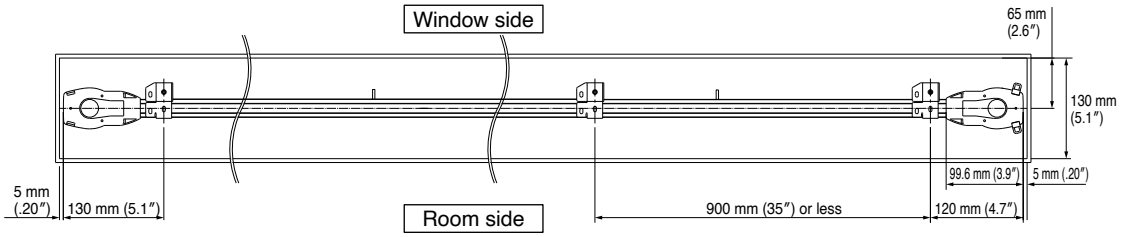


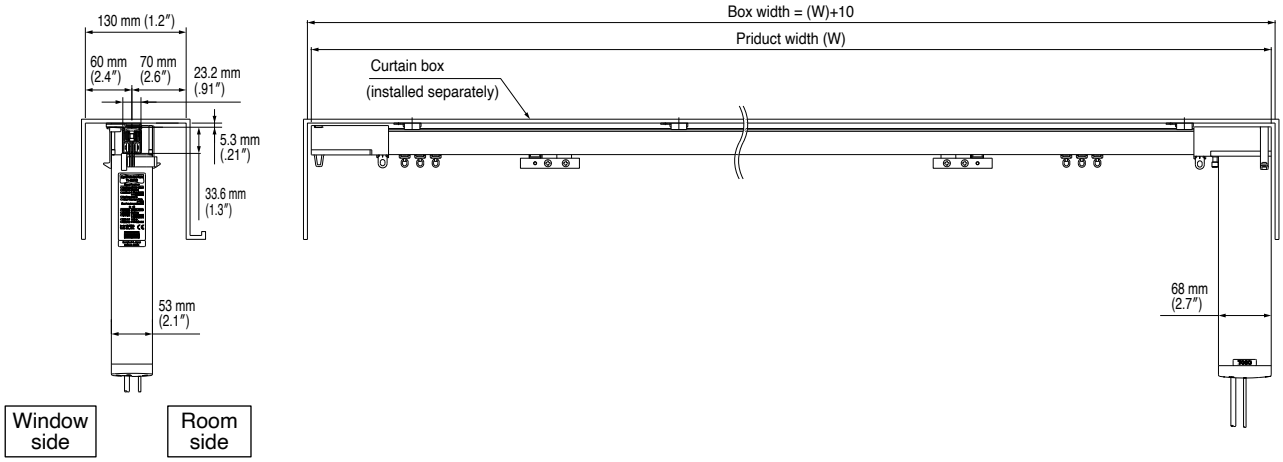
Two-way draw: ceiling double attachment
Smart Wave / Center Open Overlap



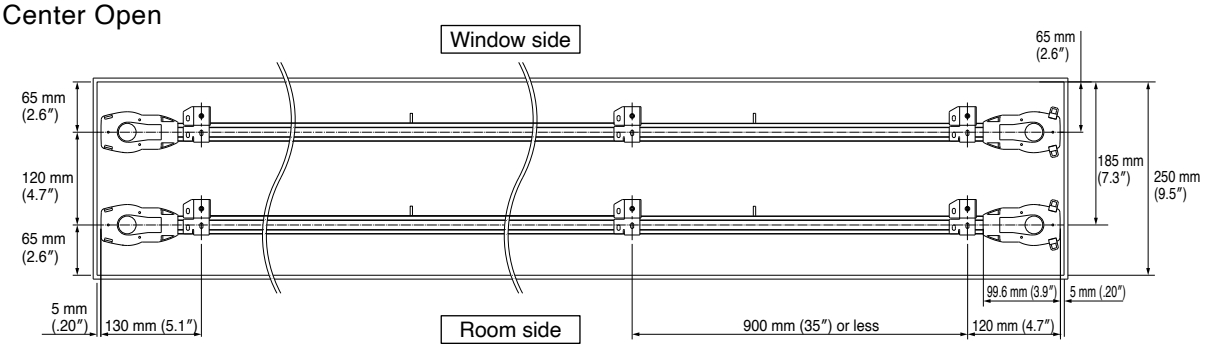


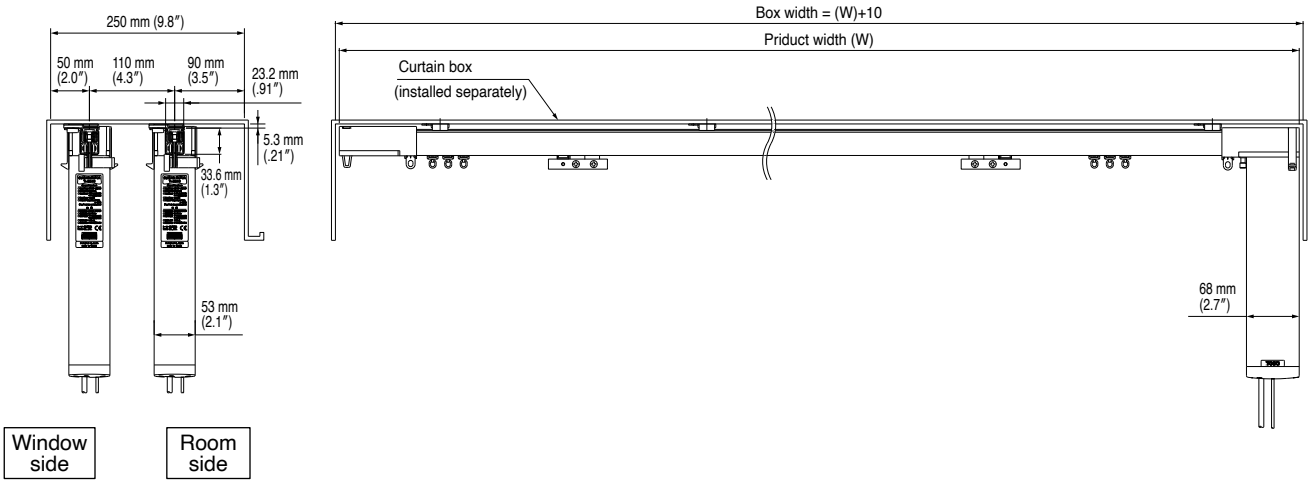
Two-way draw: ceiling single attachment
Smart Wave / Center Open



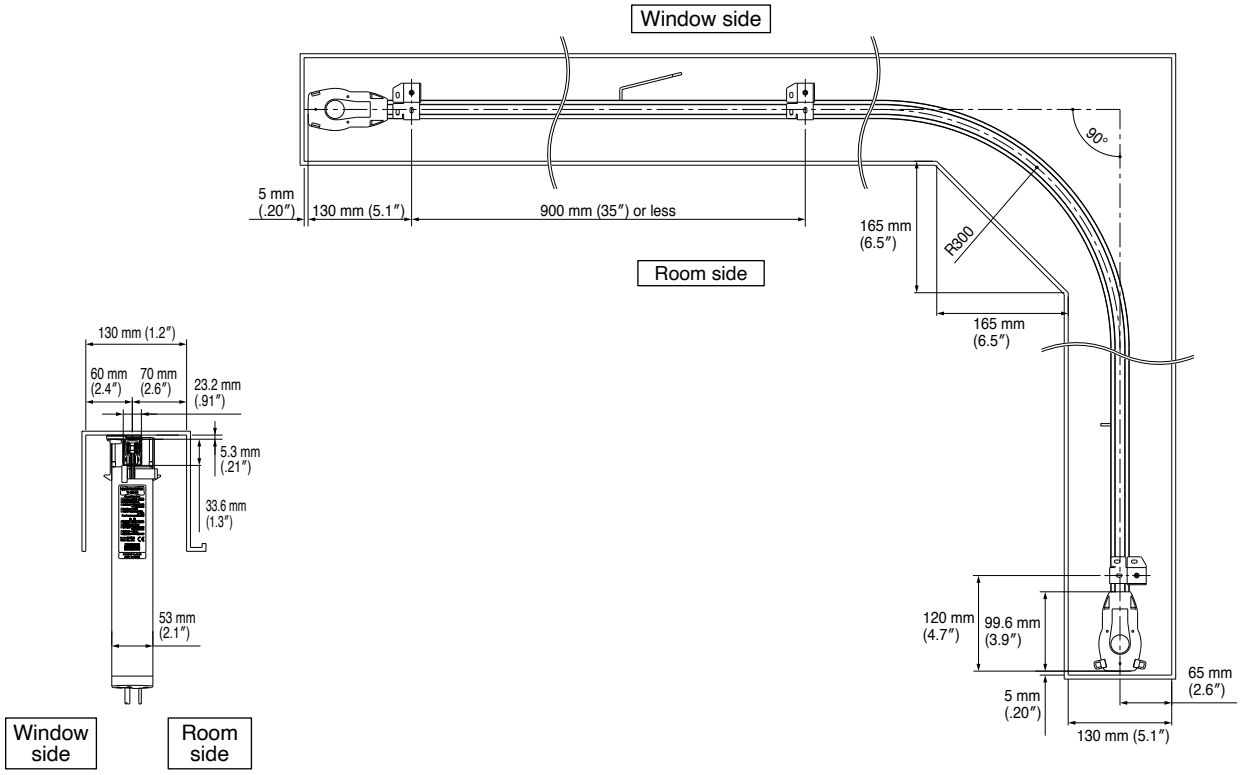


Two-way draw: ceiling double attachment
Smart Wave / Center Open

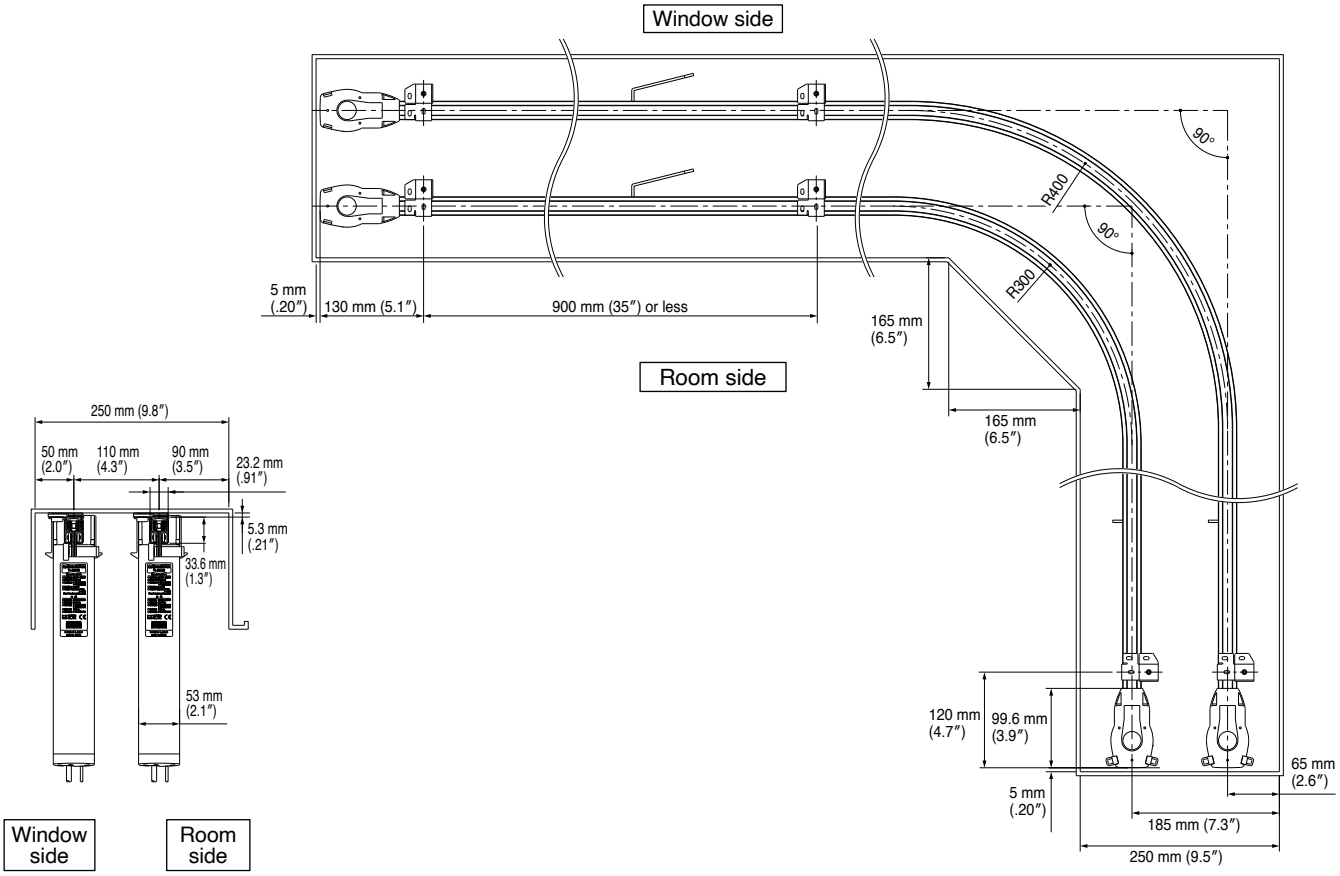




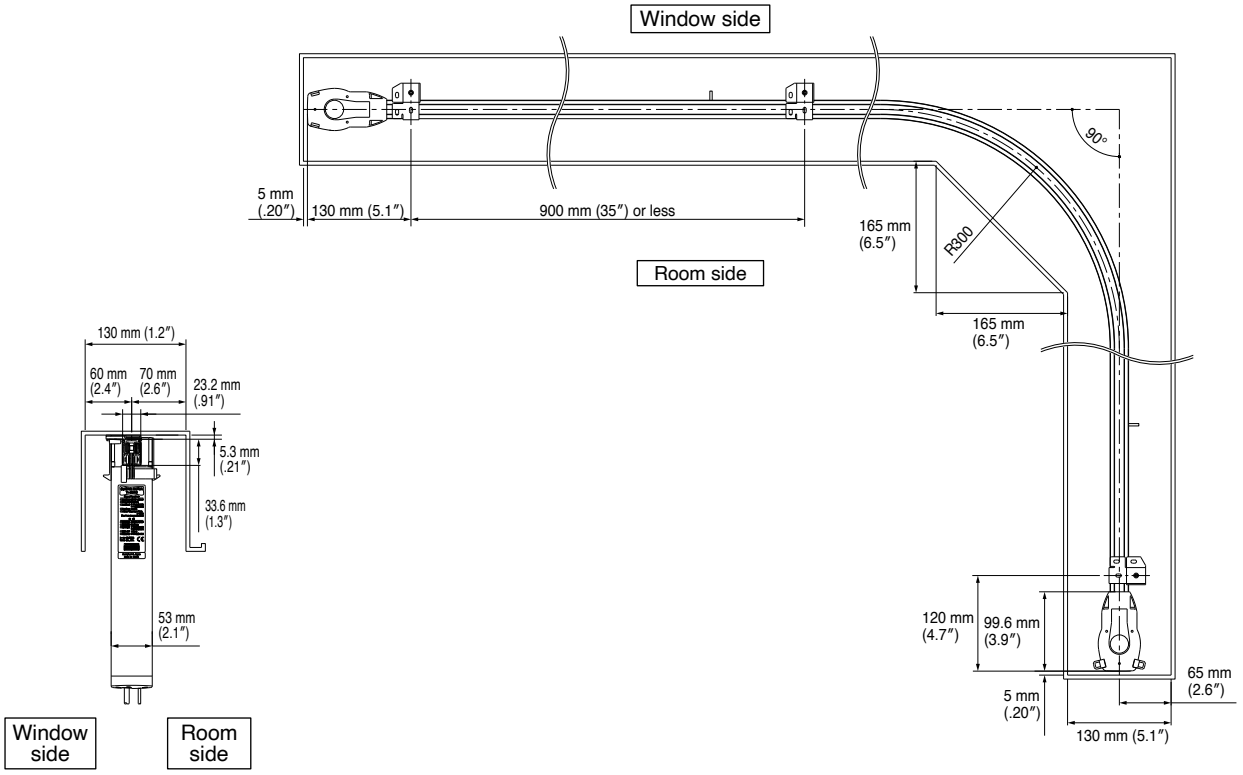
Single curve: ceiling single attachment
Smart Wave / Center Open Overlap



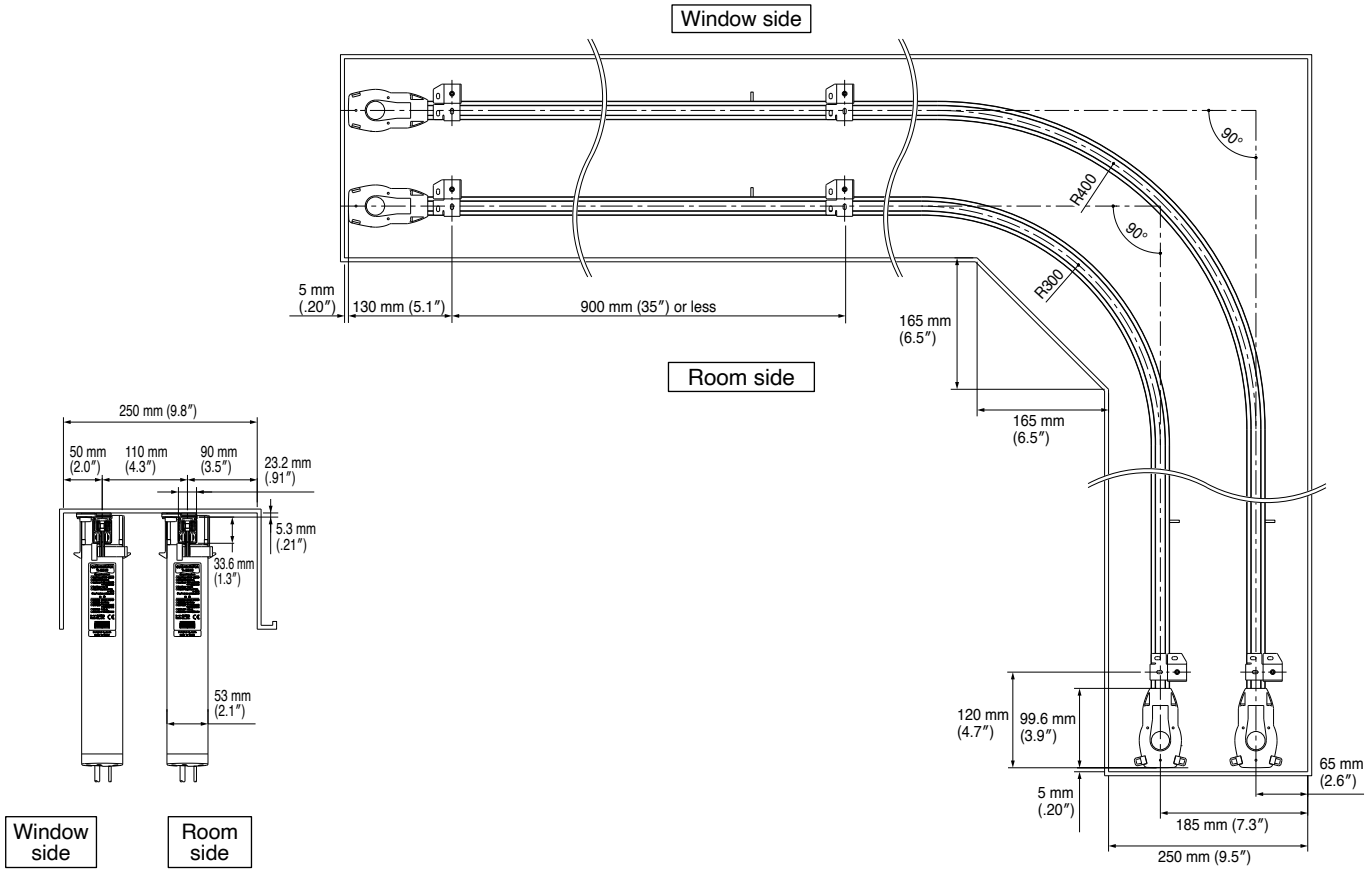
Single curve: ceiling double attachment
Smart Wave / Center Open Overlap



Single curve: ceiling single attachment
Smart Wave / Center Open



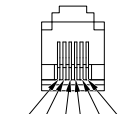
Single curve: ceiling double attachment
Smart Wave / Center Open



Basic Wiring and Connecting Diagram

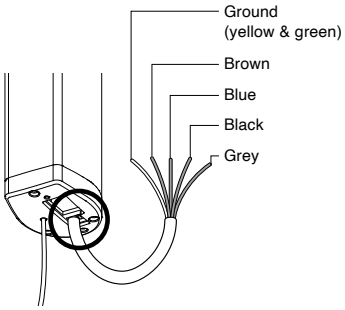
Note that the method of connecting the product to the power line differs depending upon the type of switch used.

Modular Cord Terminal



L1: STOP
L2: CLOSE
L3: OPEN
L4: COMMON
L5, L6:Not wired

L5 L3 L1 L2 L4 L6



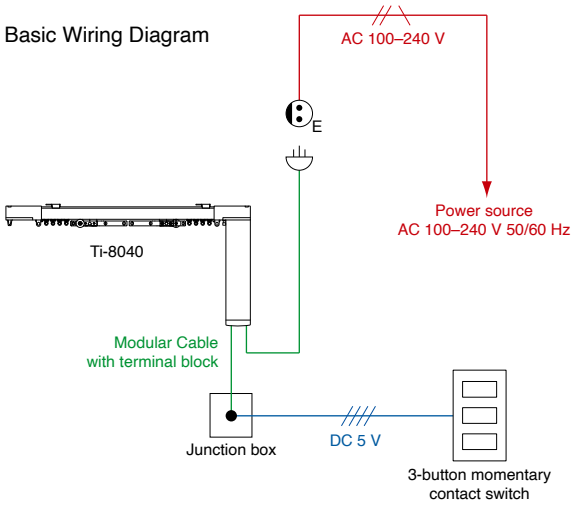
Operations and Connecting Diagrams

Wire	3 Lines	4 Lines	5 Lines
	Live, Neutral, Earth	Neutral, Open, Close, Earth	Live, Neutral, Open, Close, Earth
Contact	Dry	Wet	Dry / Wet
FM Remote	○	○	○
Slow Stop	○	–	○
Touch Motion	○	○	○

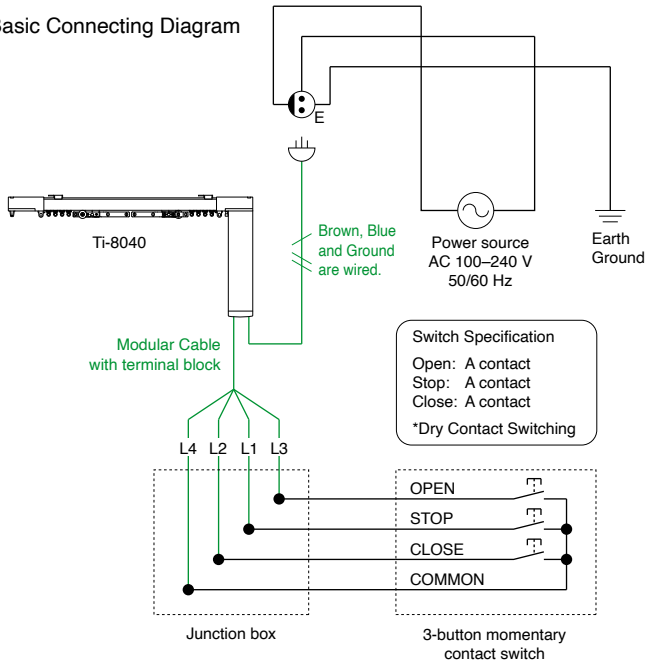
When using a dry contact (no-voltage) switch *Power line 3-core type

Single Operation

Basic Wiring Diagram

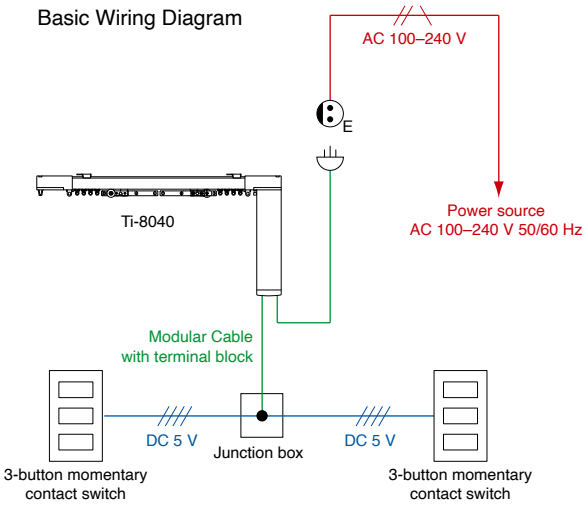


Basic Connecting Diagram

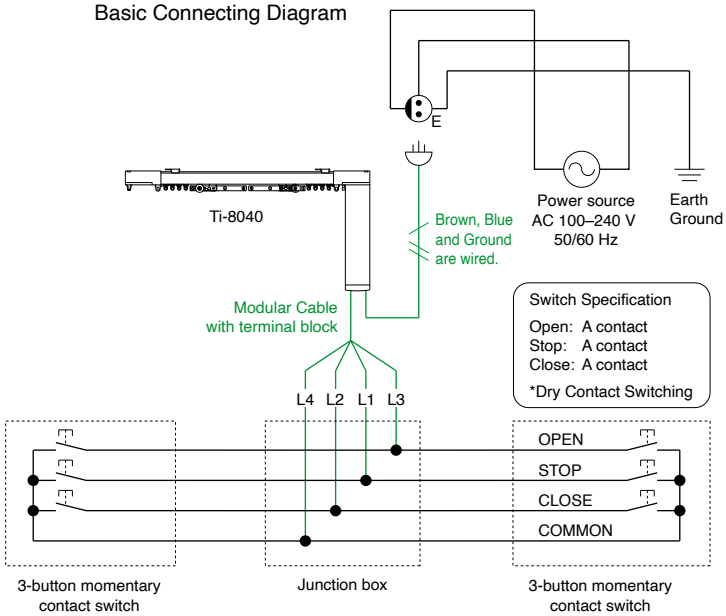


Operation from Two Locations

Basic Wiring Diagram



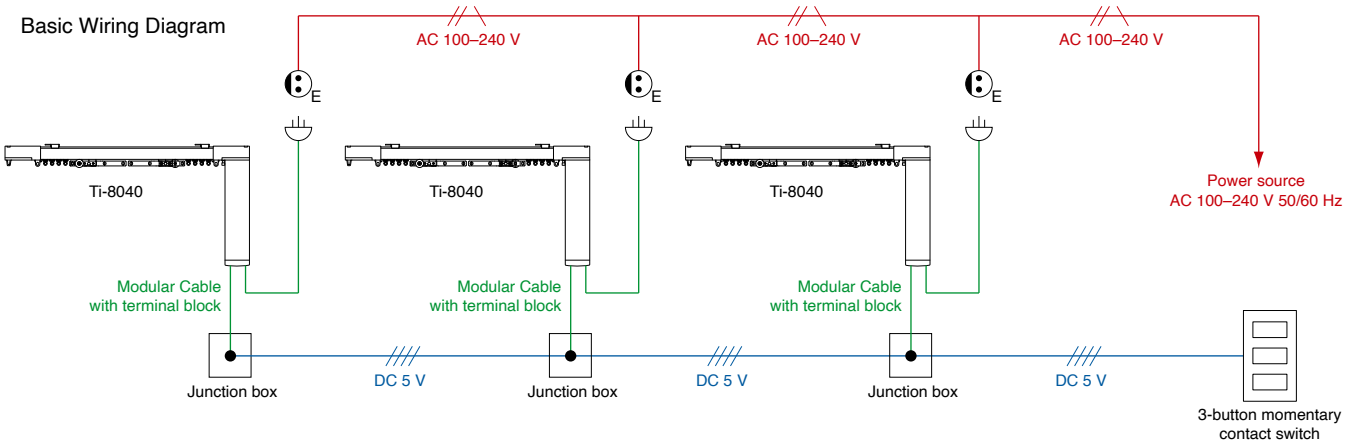
Basic Connecting Diagram



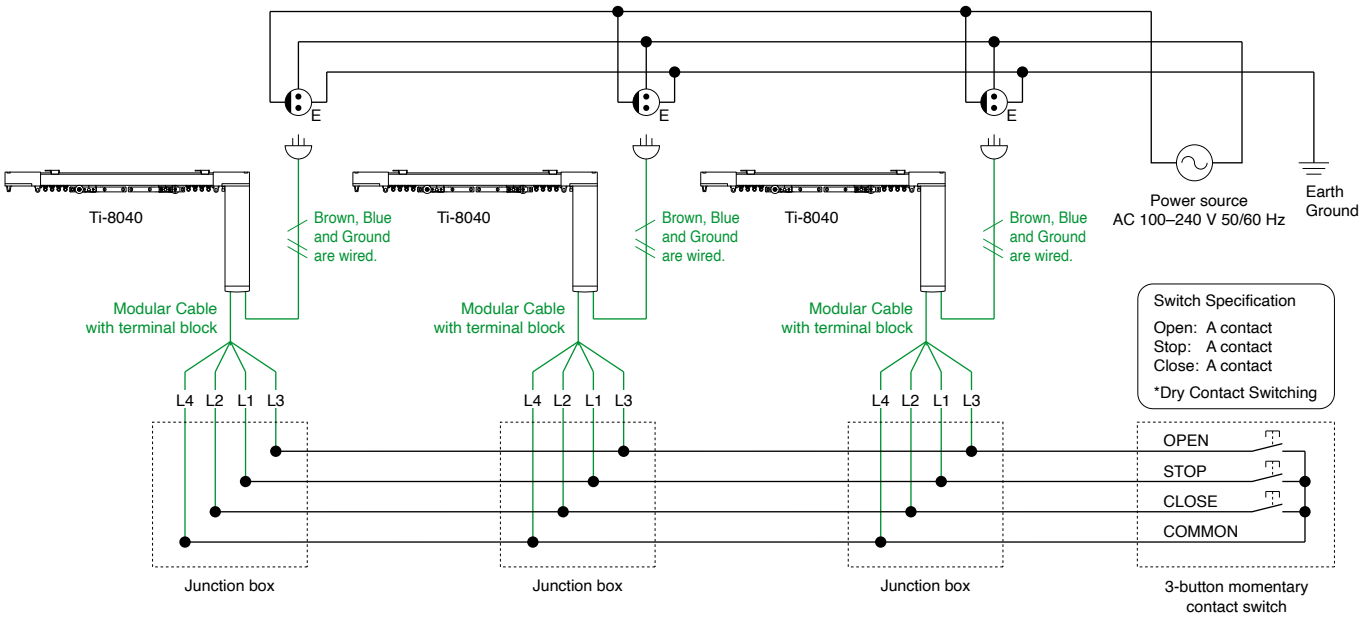
Explanatory notes: Power supply, Low voltage control line, Main body attachment or TOSO standard

Simultaneous Operation

Basic Wiring Diagram



Basic Connecting Diagram

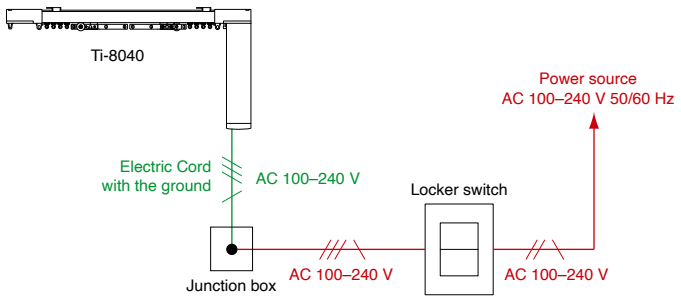


Explanatory notes: —— Power supply, —— Low voltage control line, ——Main body attachment or TOSO standard

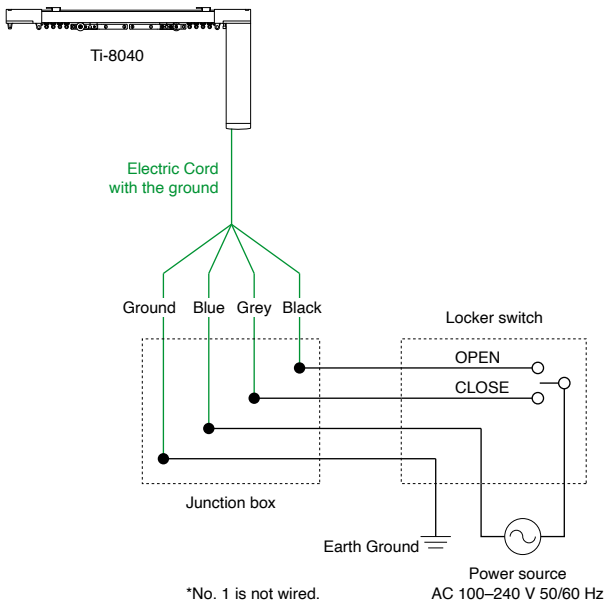
When using a wet contact (high voltage) switch *Power line 4-core type

Single Operation

Basic Wiring Diagram

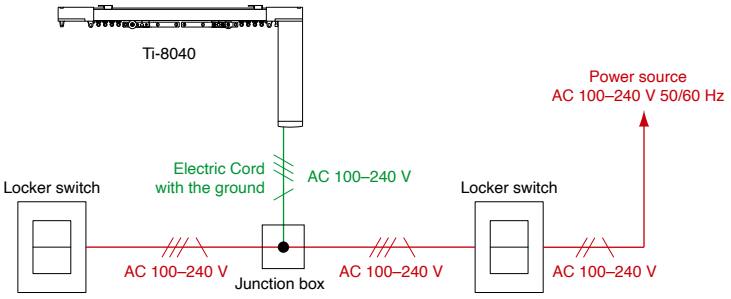


Basic Connecting Diagram

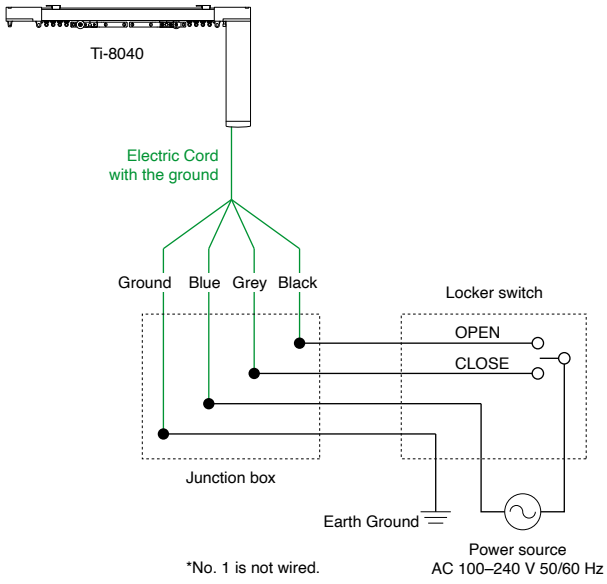


Operation from Two Locations

Basic Wiring Diagram



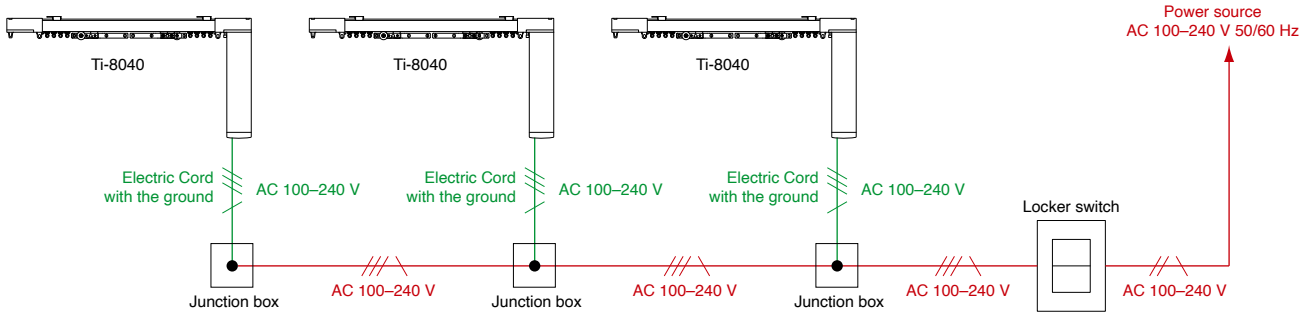
Basic Connecting Diagram



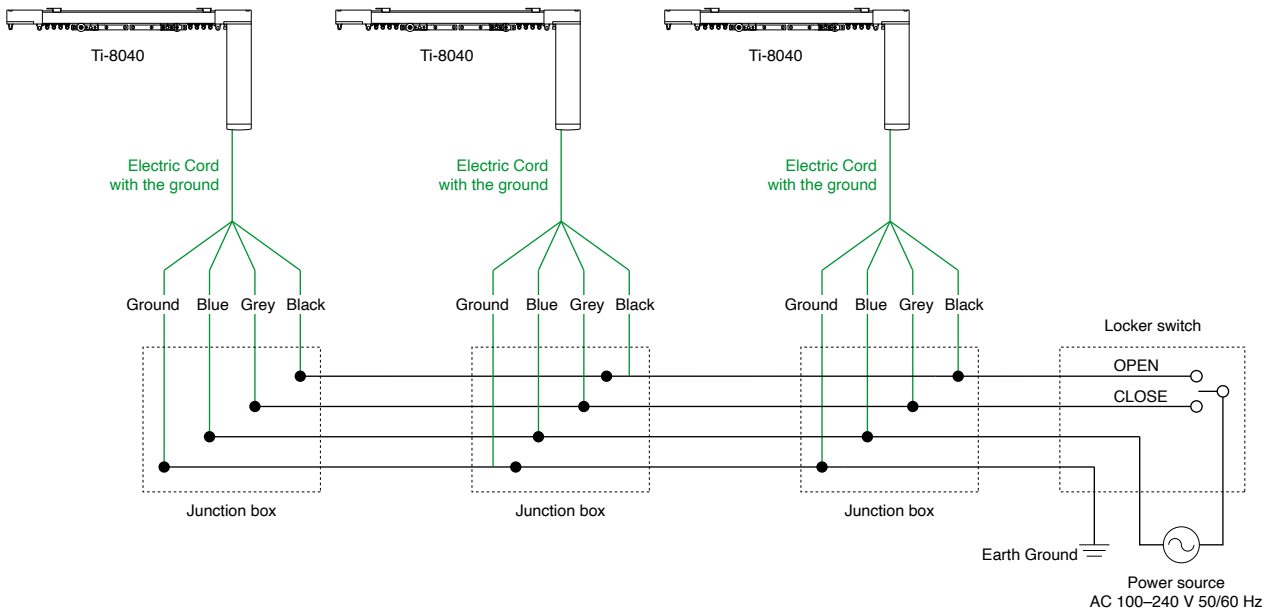
Explanatory notes: —— Power supply, —— Low voltage control line, ——Main body attachment or TOSO standard

Simultaneous Operation

Basic Wiring Diagram



Basic Connecting Diagram



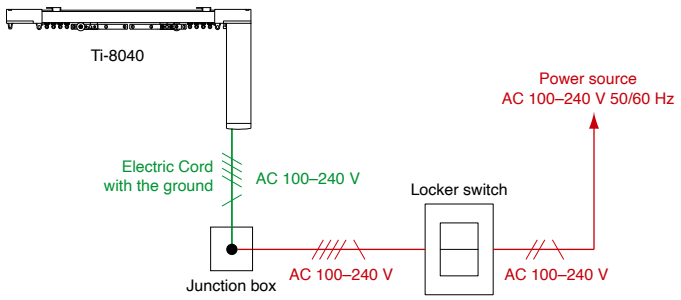
*No. 1 is not wired.

Explanatory notes: —— Power supply, —— Low voltage control line, ——Main body attachment or TOSO standard

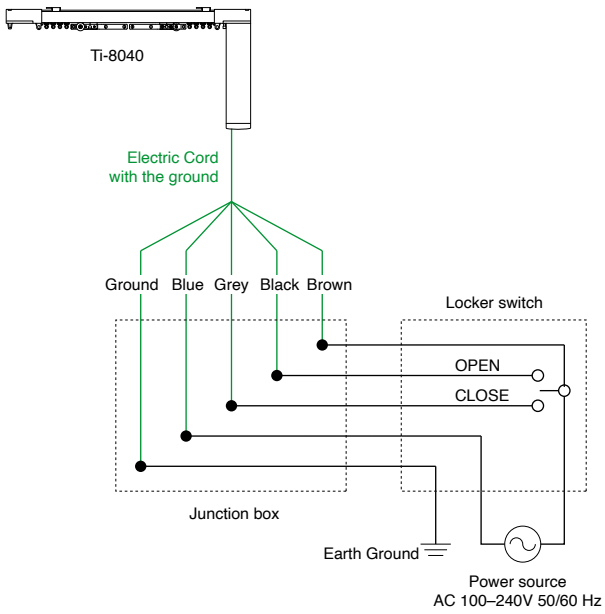
When using a wet contact (high voltage) switch　　*Power line 5-core type

Single Operation

Basic Wiring Diagram

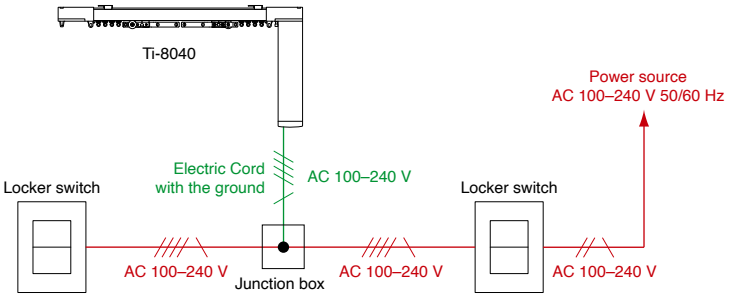


Basic Connecting Diagram

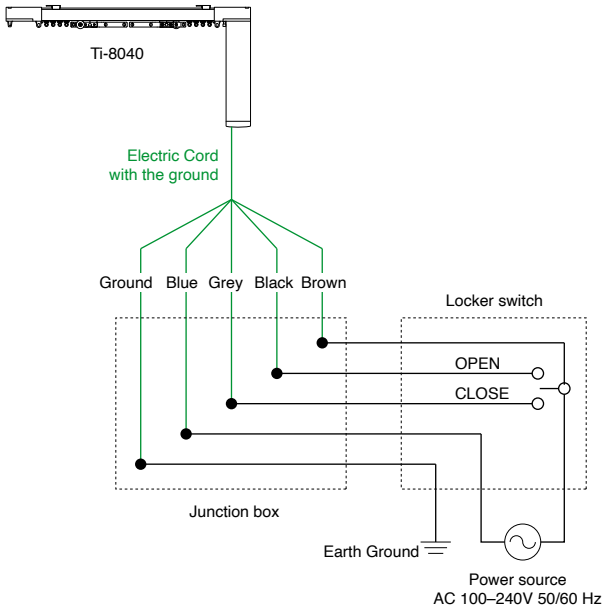


Operation from Two Locations

Basic Wiring Diagram



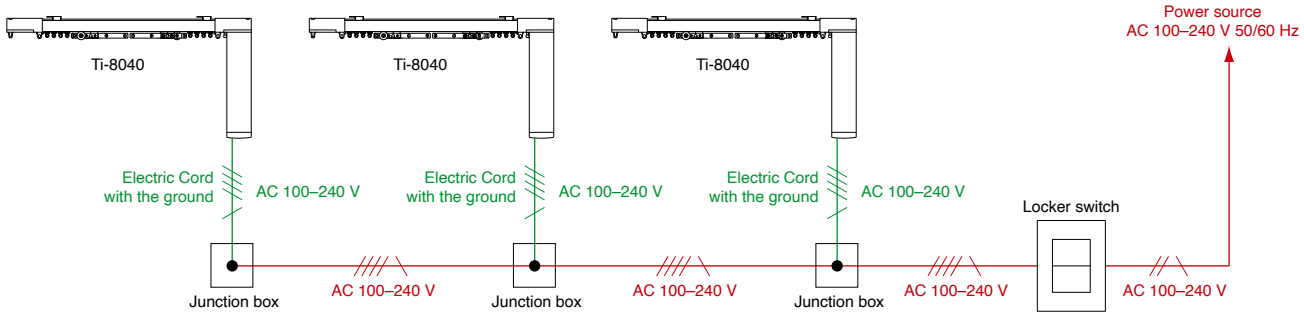
Basic Connecting Diagram



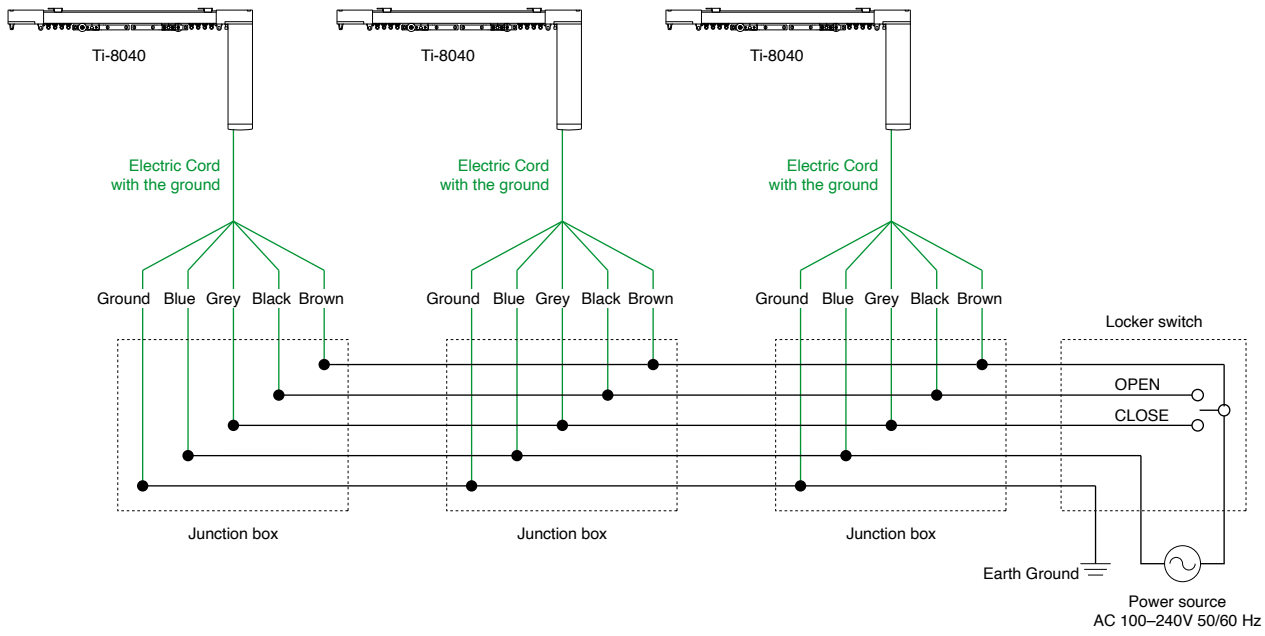
Explanatory notes: —— Power supply, —— Low voltage control line, ——Main body attachment or TOSO standard

Simultaneous Operation

Basic Wiring Diagram



Basic Connecting Diagram

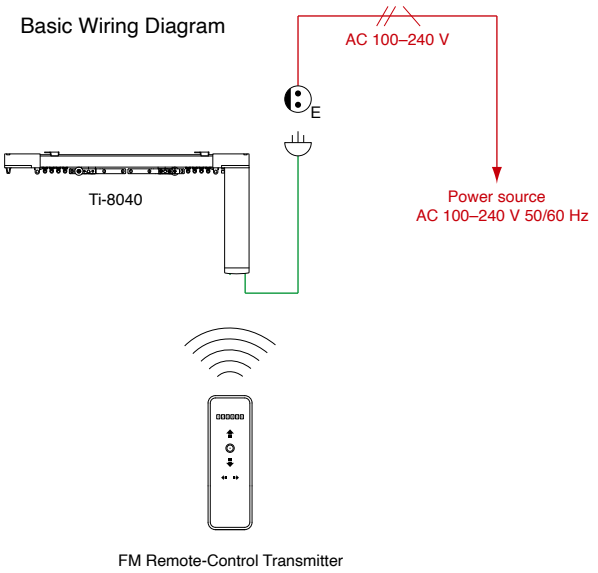


Explanatory notes: —— Power supply, —— Low voltage control line, ——Main body attachment or TOSO standard

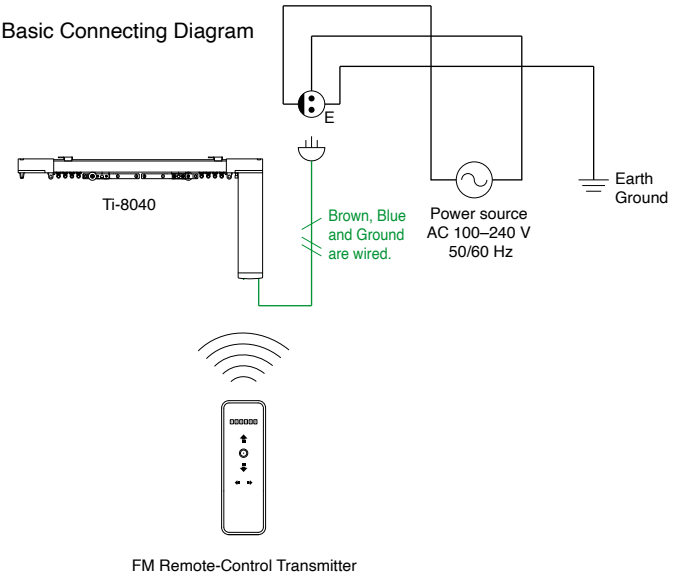
Wet contact (high voltage) / Dry contact (no-voltage) switch common

FM Remote-Control Built-in Receiver

Basic Wiring Diagram



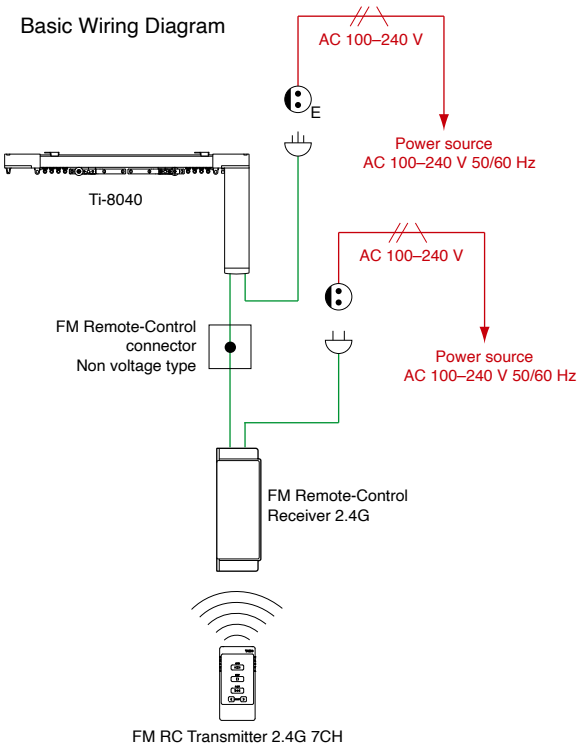
Basic Connecting Diagram



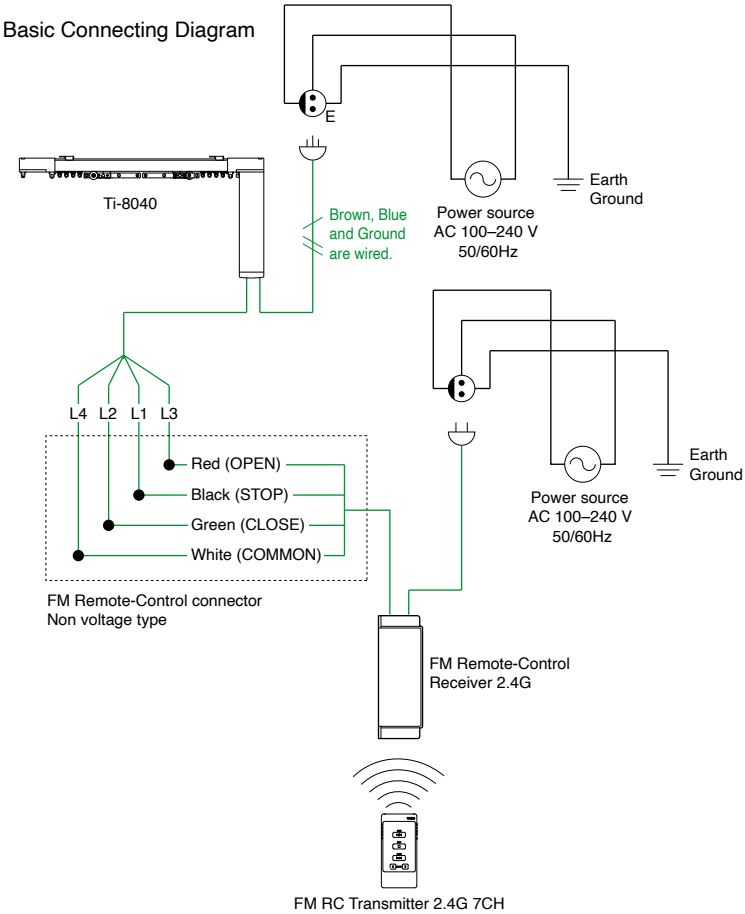
FM Remote-Control Receiver 2.4G

(Can operate with other TOSO motorized products by using FM Remote-Control 2.4G)

Basic Wiring Diagram



Basic Connecting Diagram

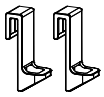
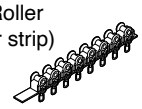
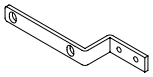
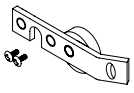


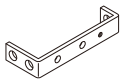
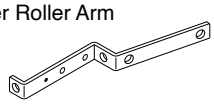
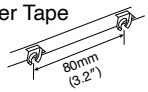
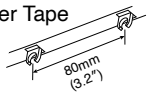
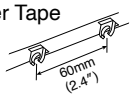
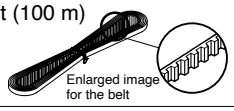
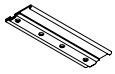
Explanatory notes: —— Power supply, —— Main body attachment or TOSO standard

Ti-8040 Track

Size		Product Code
5.00 m (197″)	White	04990014
	Black	30019886

Ti-8040 Parts

Product Name		General Style	Wave Style	Product Code
Ti-8040 Motor Set 		○	○	30006904
Curtain Hook 	Black	○	○	00000000
End Side Pulley 	White	○	○	30006881
	Black			00000000
Motor Side Pulley 	White	○	○	30006880
	Black			00000000
Stop 		○	○	04990022
Ceiling Single Bracket M 		○	○	30006884
Noiseless Roller 		○	—	04990006
New Delac Roller (8 pieces per strip) 	Natural	○	—	00210027
	Black			30020023
Pilot Roller 		○	○	04990007
Joint Plate 		○	○	04990011
Master Roller Arm 		○	—	04990012
Pilot Roller Plate with Wheel 		○	—	04990013

Product Name		General Style	Wave Style	Product Code
Smart Wave Roller (8 pieces per strip) 	Natural	—	○	30018621
	Black			30020020
Wave Support Wheel 		—	○	30019153
Wave Pitch Keep Tape Connector 		—	○	30019154
Intermediated Stop for Smart Wave 		—	○	30019805
Wave Short Arm 		—	○	30019150
Wave Master Roller Arm 		—	○	30019151
Wave Plate 		—	○	30019152
Invisible Pitch Keeper Tape 80 (15 m) 		—	○	30018624
Invisible Pitch Keeper Tape 80 (50 m) 		—	○	30018625
Invisible Pitch Keeper Tape 60 (50 m) 		—	○	30019302
Drive Belt (100 m) 		○	○	30006883
Belt Joint 		○	○	04990009
Belt Joint Cover 		○	○	04990010
OT Splice 	White	○	○	04990020
	Black			30019884
Splice Pin 		○	○	30009334

Projects

TOSO offers a full lineup of functional, decorative products, providing plans for the creation of pleasant windows in the architectural spaces of a new age.

Project Name	Ctiy	Country
Okura Prestige Tower Tokyo	Tokyo	Japan
JANU, AMAN Tokyo	Tokyo	Japan
Peninsula Shanghai	Shanghai	China
Ritz Carlton Hong Kong	Hong Kong	Hong Kong
Andaz Seoul	Seoul	South Korea
Marriott Kochi	Kochi	India
Double Tree By Hilton Taipei	Taipei	Taiwan
Jumeirah Bali	Bali	Indonesia
Edition Singapore	Singapore	Singapore
Park Hyatt Bangkok	Bangkok	Thailand
Hyatt Regency Paris Etoile	Paris	France
The Ritz Paris	Paris	France
Jumeirah Frankfurt	Frankfurt	Germany
Royal Mansour Casablanca	Casablanca	Morocco
Raffles Dubai	Dubai	United Arab Emirates





