AUTOMATE®

Internal Sun Sensor

Detects sunlight levels and automatically adjusts your shades for enhanced comfort and convenience.

Transmitting power: 10 mW
Battery: 1.5V (AAA battery×1)
Working temperature: -15°C~60°C

MT02-0302-067003_v1.3_March 2025

Safety Instructions

Warning: When using this product, please note the following safety precautions:

1. Do not use a different type of battery than the one specified. Doing so can cause a safety hazard.
2. Dispose or recycle used batteries according to your local rules and regulations.
3. Keep away from children.
4. If swallowed, seek medical attention immediately.
5. Do not:
a) Recharge non-rechargeable batteries
b) Force discharge, recharge or disassemble batteries.
c) Expose batteries to temperatures exceeding the manufacturer's specified rating. This may cause leakage or exposion, leading to burns or injury.
6. Ensure batteries are installed correctly, following indicated polarity (+ and -).
7. Do not mix old and new batteries, different brands, or different battery types (e.g., alkaline, carbon-zinc, or rechargeable).
8. If the device will not be used for an extended period, remove the batteries and store them properly.
9. Do not dispose of batteries in household trash or incinerate.

Radio System Interference
10. The performance of the radio system may be affected when used near devices with strong magnetic fields or metallic surfaces. Structural conditions may also impact range and functionality.

Restricted Usage Areas
11. Do not operate the radio system in areas prone to high interference, such as hospitals, airports, or other sensitive facilities.

Do not dispose of in general waste. Please recycle batteries and damaged electrical products appropriately.

CAN ICES-3(B)/NMB-3(B)

FCC & ISED Statement

MT02-0302-067003
FCC ID: 2AGGZ003B9ACA58
IC: 21769-003B9ACA58

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1) L'appareil ne doit pas produire de brouillage;
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

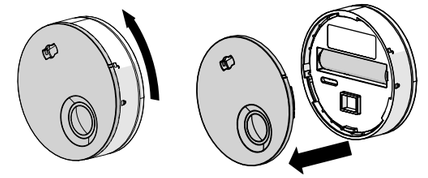
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Battery Replacement

To change the battery, twist the back cover counter-clockwise to the unlocked position.

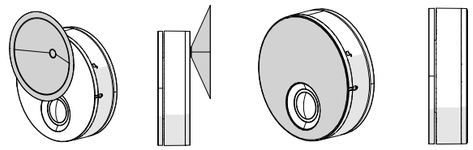
Note: When battery is low, the LED will blink every 2 minutes.

STEP 1 STEP 2

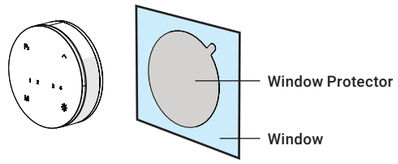


Mounting Options

OPTION 1: SUCTION CUP OPTION 2: ADHESIVE TAPE

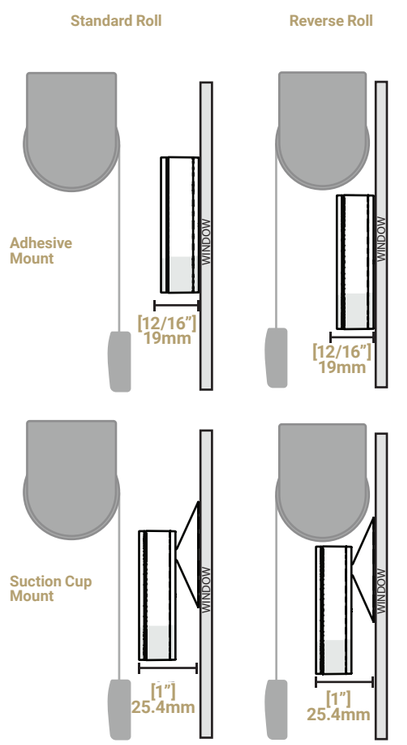


Note: When using the adhesive tape, it is advised to use the window protector to prevent any adhesive residue.



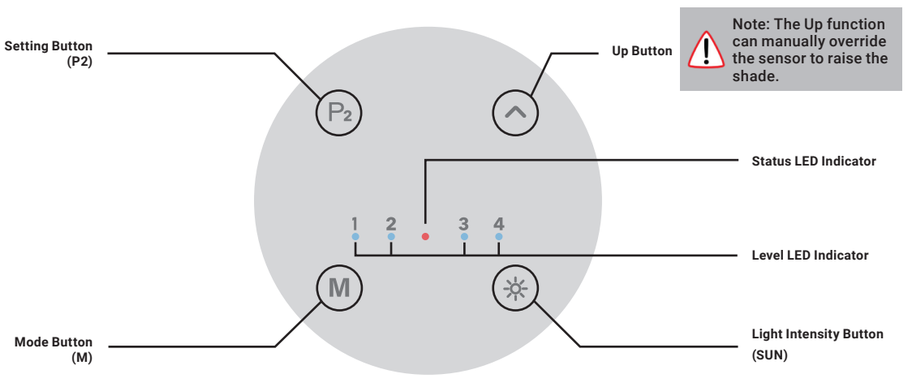
Installation Considerations

Note: To avoid Bottom Rail/Hem Bar coming into contact with the Internal Sun Sensor, follow minimum distance to window.



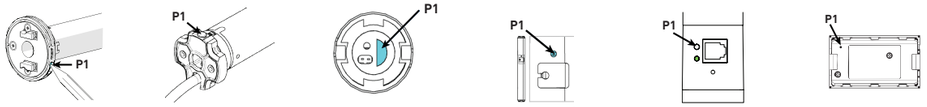
INSTALLER

Button Locations



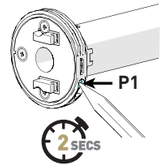
Note: The Up function can manually override the sensor to raise the shade.

P1 Locations



Pairing Motor to Sensor

Hold **P1** on motor head.



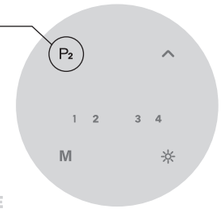
* Internal Tubular Motor pictured.
Refer to "P1 Locations" for specific devices.

Press the P1 button on the motor for 2 Seconds until the motor responds as below.

MOTOR RESPONSE

JOG x1 BEEP x1

Press **P2** on the sensor to pair.

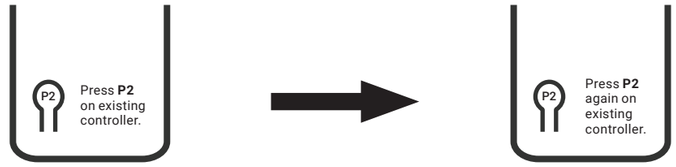


MOTOR RESPONSE

JOG x2 BEEP x3

Pairing the Sensor using an existing Remote Control

A (Controller) = Existing controller, remote or channel that is paired to the motor



MOTOR RESPONSE

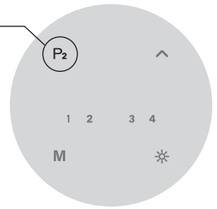
JOG x1 BEEP x1

MOTOR RESPONSE

JOG x1 BEEP x1

B (Sensor) = Sensor to add or remove

Press **P2** on the sensor to pair it.



MOTOR RESPONSE

JOG x2 BEEP x3

Note: Repeating this section with an existing Remote on an already paired Sensor will unpair the Sensor from the motor.

LIGHT LEVELS

Note: The factory default mode is level 1, the sensor is disabled. Tap SUN to check the current sun setting, Hold SUN for 2s to switch to next level.

Level	Light intensity detection range	LED	Description
1		1	Sensor is disabled
2	15K LUX	2	Light level is set to trigger command at light levels above 15K and below 30K.
3	30K LUX	3	Light level is set to trigger command at light levels above 30K and below 45K.
4	45K LUX	4	Light level is set to trigger command at light levels above 45K and below 60K.

Check light level intensity

Press x1

Current sun setting level is 3

Switch the sun level

Hold

Current sun setting level is 4

AMBIENT LIGHT DETECTION

Press M & SUN buttons together.

Both level & status LED indicator lights will turn ON. The sensor will enter Ambient Light Detection.

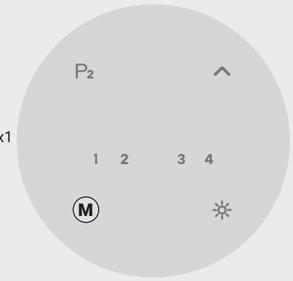
The Light LED indicator represents the current ambient light entering the sensor.

After 20 seconds, the indicators will turn OFF and the sensor will exit Ambient Light Detection.

Light intensity detection range (LUX)	LED	Description
<15K	1	Ambient light intensity is less than 15K
15K~30K	2	Ambient light intensity is between 15K and 30K
30K~45K	3	Ambient light intensity is between 30K and 45K
>45K	4	Ambient light intensity is between 45K and 60K

CHECK MODE

Press x1



Mode is set to 1 (LED Indicator)

SWITCH MODE

Hold

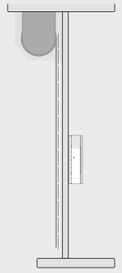
Mode is set to 2 (LED Indicator)

MODE 1

Outdoor Shades
Close Mode

LED Mode Light level 1 is ON

For outdoor blinds, shades and roller shutters.
Use mode 1: When the shade blocks sensor.



When the sun intensity exceeds the set level for more than 2 minutes, the sensor will send the down command to lower the blinds or shades

MODE 2

Indoor Shades
Open/Close Mode

LED Mode Light level 2 is ON

For indoor blinds and shades.
Use mode 2: When the shade does not block sensor.

When the sun intensity exceeds the set level for more than 2 minutes, the sensor will send the down command to lower the blinds or shades.

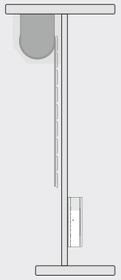
When the sun intensity is lower than the set level for more than 15 minutes, the sensor will send the up command to raise the blinds or shades.

MODE 3

Outdoor Shades
Shade Detect Open/Close Mode

LED Mode Light level 3 is ON

For outdoor blinds, shades and roller shutters.
Use mode 3: When the shade does not block sensor.



When the sun intensity exceeds the set level for more than 2 minutes, the sensor will send the down command to lower the blinds. Once the blinds or shades cover the sensor, it will retract, stopping above the sensor.

When the sun intensity is lower than the set level for more than 15 minutes, the sensor will send the up command to raise the blinds or shade.

Important Information: Sensor & Motor Pairing Limits

Each motor can only be paired with one sensor at a time. It is not possible to connect multiple sensors to a single motor, including any combination of, but not limited to:

Sun & Wind Sensor + Motion Sensor
Internal Sun Sensor + Motion Sensor
Two Sun & Wind Sensors
Two Motion Sensors
Two Internal Sun Sensors

If a new sensor is paired with a motor, it will override the previously paired sensor.

Multiple motors can be paired to one sensor. E.g., one Internal Sun Sensor and three motors.