



Signature Module

MODEL: SM-101, SM-102

WARNING

Read and understand all instructions before beginning installation. Disconnect power to motor and test upon completion. **Signature Modules** should be installed by qualified personnel to ensure the requirements herein have been met. Keep these instructions with the installation. Always abide by local and national electrical code specifications when wiring accessories to motor controls.

Signature Module is a UL Recognized Component that meets the UL 325 requirement. Consult your manual for detailed instructions about connecting to the motor. **Signature Module** converts a monitored device to a pulsed output as required by a commercial door operator:

- **SM-101:** Converts a diode capacitor device to a pulsed output
- **SM-102:** Converts a 10K ohm device to a pulsed output

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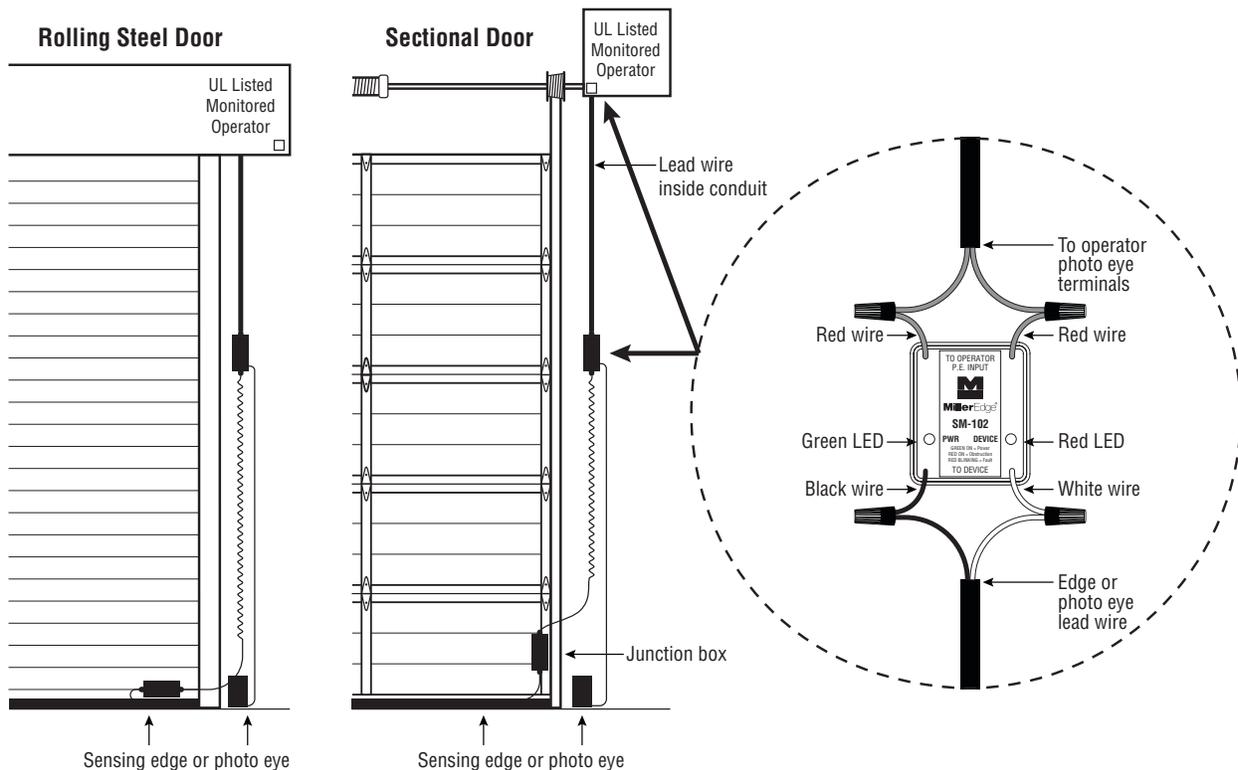
- (1) Signature Module (SM-101 or SM-102)
- (1) Junction box
- (4) Wire nuts
- (2) Clamp-on style wire fittings

REQUIRED

- 18–22-gauge wire or coil cord
- Sensing edge or photo eye with a diode capacitor or 10K ohm output

SUGGESTED

- Operator manual
- Edge Tester (MET-101)
- Ohm meter (capable of measuring 10K)



I. INSTALLTION

1. Disconnect all power. Do not reconnect the opener to source of power until instructed to do so.
2. Mount the sensing edge or photo eye per the device installation instructions.
3. Place the Signature Module inside the operator or inside the provided junction box.
4. Connect the wires as follows:

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- a) **Sensing edge (SM-101 or SM-102):** Connect black and white wires of the sensing edge to the black and white wires of the Signature Module, using a length of additional wire or coil cord as needed (not provided).
 - b) **Photo eye (SM-102):** Connect the common and 10K ohm output wires of the photo eye to the black and white wires of the Signature Module inside the provided junction box.
5. Connect the red wires of the Signature Module to the operator, using a length of additional wire as needed (not provided).*

II. TEST SYSTEMS

1. Reconnect power to the operator.
2. The red LED on the Signature Module will be off if the device is not active.
3. Open the door 3-4 feet and apply pressure to the sensing edge or block the photo eye, the red LED on the Signature Module will be on-solid.
4. Open the door completely, then run door in the closing direction.
5. Apply pressure to the sensing edge or block photo eye and the door will reverse.

Note: If any steps fail, check all connections and refer your operator installation manual.

III. STATUS INDICATORS

LED	INDICATOR	STATUS	DESCRIPTION
GREEN	On	Power	Normal operation
	Off	No power	Check the wire connection between the operator and the Signature Module
RED	Off	Device is not active	Normal operation
	On	Device is active—fault	Sensing edge is activated or photo eye is blocked.
	Blinking	Device is open—fault	Check the wire connection between the device and the Signature Module The 10K ohm sensing edge or photo eye not detected

IV. TECH SUPPORT

For additional assistance, contact Miller Edge Tech Support: 800-220-3343

V. GENERAL SPECIFICATIONS

	SM-101	SM-102
PERFORMANCE		
Operating Temperature	-35°C to +70°C (-31°F to +158°F)	-35°C to +70°C (-31°F to +158°F)
Agency Approvals	UL 325 Recognized Component	UL 325 Recognized Component
ELECTRICAL		
Power Source	Photo eye input	Photo eye input
Current Consumption	30 mA	30 mA
Input	Diode capacitor (monitored) sensing edge	10K resistive (monitored) sensing edge
Output	Pulsed (monitored)	Pulsed (monitored)
Relay Rating	Class 2 device	Class 2 device
PHYSICAL		
Dimensions	Module: 1.8"H x 1.25"W x 0.8"D (46 x 32 x 20 mm) Junction box: 1.5"H x 4"W x 2"D (38 x 102 x 51 mm)	Module: 1.8"H x 1.25"W x 0.8"D (46 x 32 x 20 mm) Junction box: 1.5"H x 4"W x 2"D (38 x 102 x 51 mm)
Weight	12 oz.	12 oz.
Housing Material	Module: ABS plastic with epoxy Junction box: Galvanized steel	Module: ABS plastic with epoxy Junction box: Galvanized steel
LED Indicators	Power, fault	Power, fault
Degree of Protection	Module: NEMA 4 Junction box: UL Listed	Module: NEMA 4 Junction box: UL Listed

VI. MAINTENANCE

It is strongly recommended that users test operation and check the **Signature Module** at least once per month for damage to housings and mountings. Also check for signs of damage to cables or connection points. Refer to your operator manual for detailed instructions about motor connections.

VII. WARRANTY

Signature Module carries a **1-year warranty** from date of shipment from Miller Edge for credit or replacement. This warranty applies to normal use, which is found to have defective materials or workmanship, as determined solely by an authorized factory representative. This warranty is void where evidence of misuse or abuse is present. This warranty covers repair or replacement of the purchased product only; product installation/labor charges are not covered. Miller Edge manufactures its products to meet stringent specifications and cannot assume responsibility for those consequences arising from improper installation or misuse. Installation instructions and testing procedures provided by Miller Edge must be followed for proper operation and maintenance.