



ADVANCING  
VENTILATION®

# SMC SERIES OCCUPANCY SENSOR

## Supplemental Installation Manual for Accessories

SMC-C (Ceiling Mount)

SMC-W (Wall Mount)



SMC-C Ceiling Mount



SMC-W Wall Mount

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## 1.0 OVERVIEW

### 1.1 SPECIFICATIONS

- Passive infrared sensor
- Adjustable time-off delay to 30 minutes
- 24VAC power requirement
- Ceiling mount or directable wall mount
- Coverage floor space
  - Ceiling mount: 1500 sq. ft.
  - Wall mount: 2500 sq. ft.
- Major motion area
  - Ceiling mount: 50 ft. diameter
  - Wall mount: 68 x 50 ft.

Model	Volts	Current	Isolated Relay	Coverage Area	Suggested Mounting Height
SMC-C	15-28VAC	30 mA	1 A @ 30 VAC/DC	1500 sq. ft.	8-10 ft.
SMC-W	15-28VAC	30 mA	1 A @ 30 VAC/DC	2500 sq. ft.	8-10 ft.

## 2.0 INSTALLATION

### 2.1 SMC-C CEILING MOUNT

See the Leviton installation instructions provided in the original box for in-details or for more options.

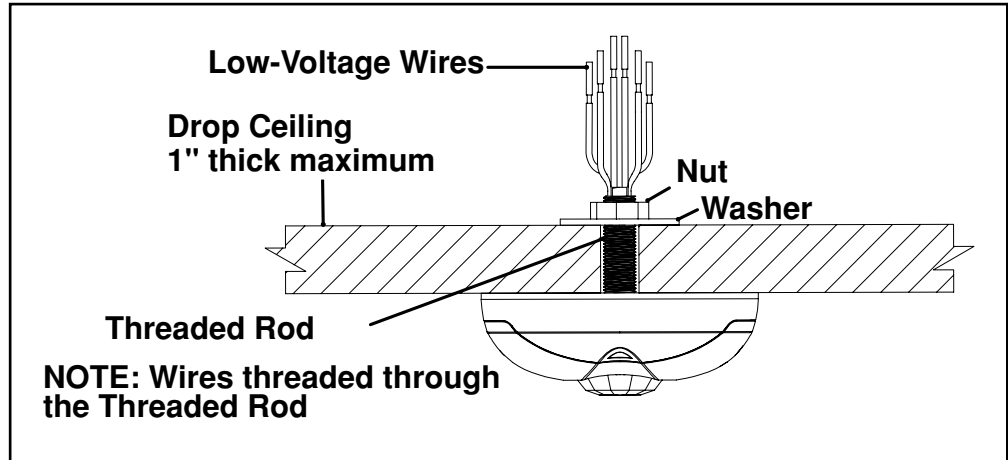


FIGURE 2.1.0 SMC-C CEILING MOUNT INSTALLATION

### 2.2 SMC-W WALL MOUNT

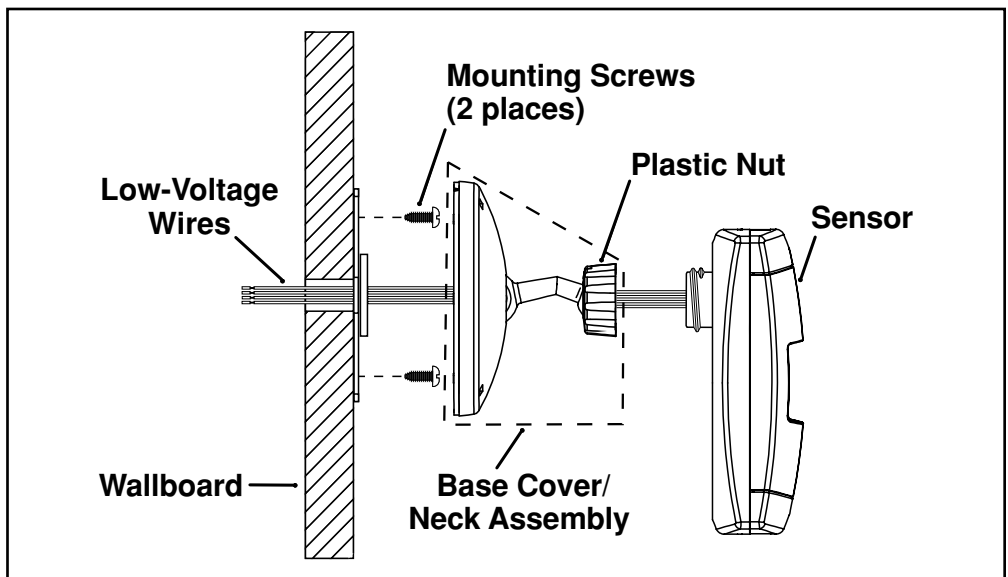


FIGURE 2.2.0 SMC-W WALL MOUNT INSTALLATION

### 3.0 SETTINGS

#### 3.1 ADJUSTMENT KNOBS





KNOB COLOR	SYMBOL	FUNCTION	KNOB SETTING	FACTORY DEFAULT SETTING
Red		Sets the infrared range	Range Setting Full CCW = min. (OFF) Full CW = max.	75% 
Black		Delayed-Off Time	Full CCW = min. (30 sec.) Full CW = max. (30 min.)	50% (10 min.) 

FIGURE 3.1.0 KNOB ADJUSTMENT TABLE

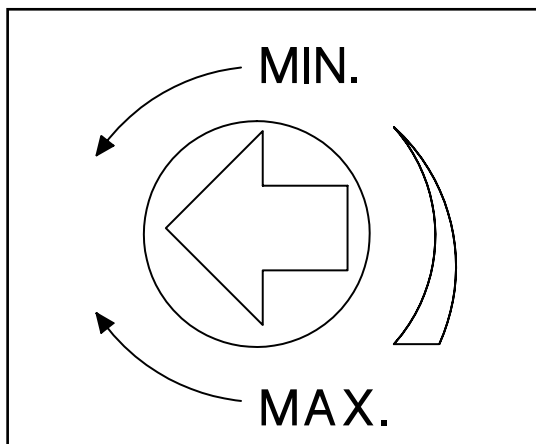


FIGURE 3.1.1 INFRARED RANGE ADJUSTMENT

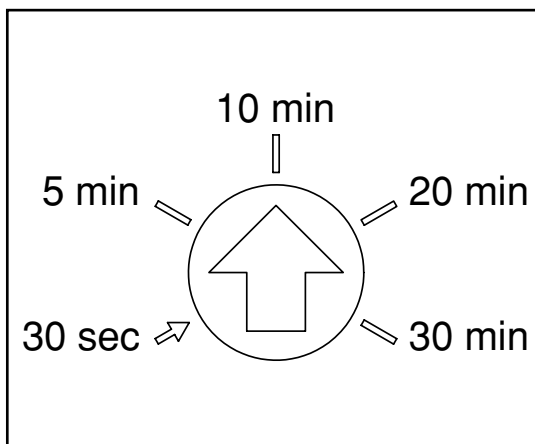


FIGURE 3.1.2 DELAYED—OFF TIME ADJUSTMENT

### 3.2 DIP SWITCHES

Switch	Switch Functions	Switch Settings	
	Bank A	OFF	ON
A1	N/A	N/A	N/A
A2	N/A	N/A	N/A
A3	Manual Mode	Auto Adapting Enabled	Auto Adapting Disabled
A4	Walk-Through Disabled	Walk-Through Enabled	Walk-Through Disabled
	Bank B	OFF	ON
B1	Override to ON	Auto Mode	Lights Forced ON
B2	Override to OFF	Auto Mode	Lights Forced OFF
B3	Test Mode	OFF $\leftrightarrow$ ON $\leftrightarrow$ OFF = Enter/Exit Test Mode	
B4	LEDs Disabled	LEDs Enabled	LEDs Disabled

FIGURE 3.2.0 DIP SWITCH SETTING TABLE

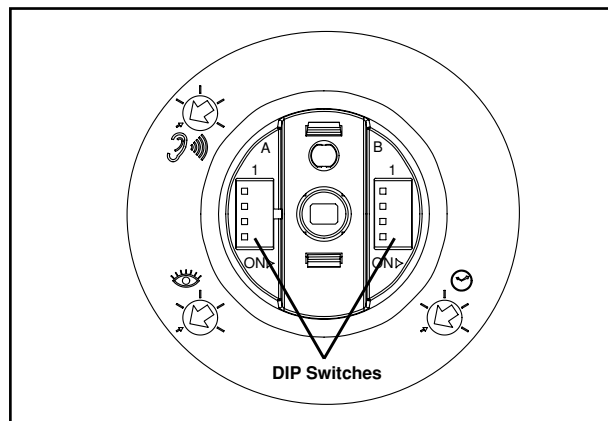


FIGURE 3.2.1 SMC-C DIP SWITCHES

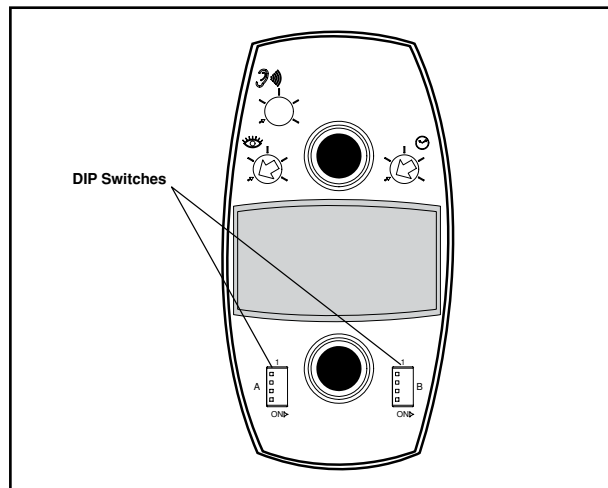


FIGURE 3.2.2 SMC-W DIP SWITCHES

## 4.0 ELECTRICAL

### 4.1 WIRING SCHEMATICS

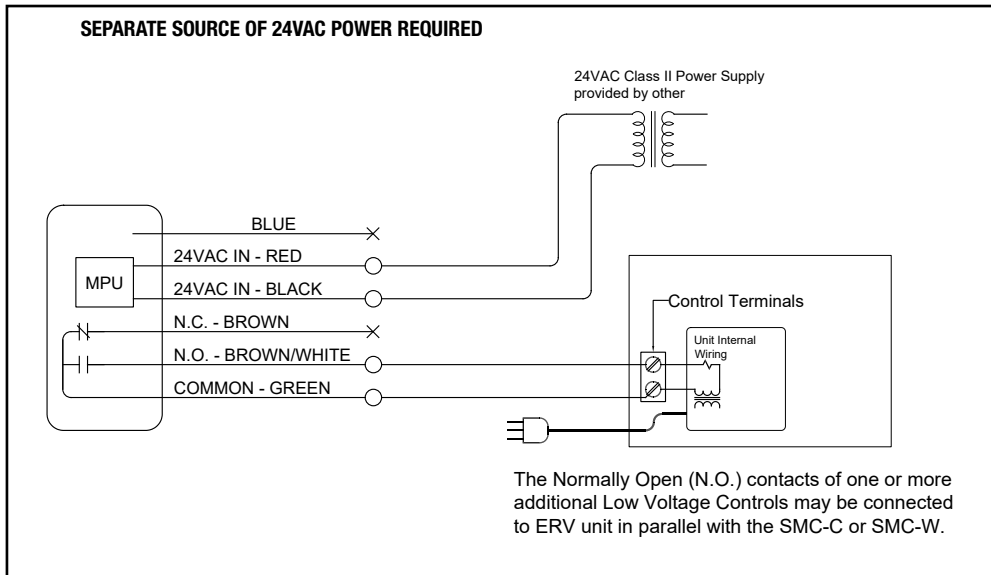


FIGURE 4.1.0 TR90, TR130, TR200, AND TR300 SCHEMATIC

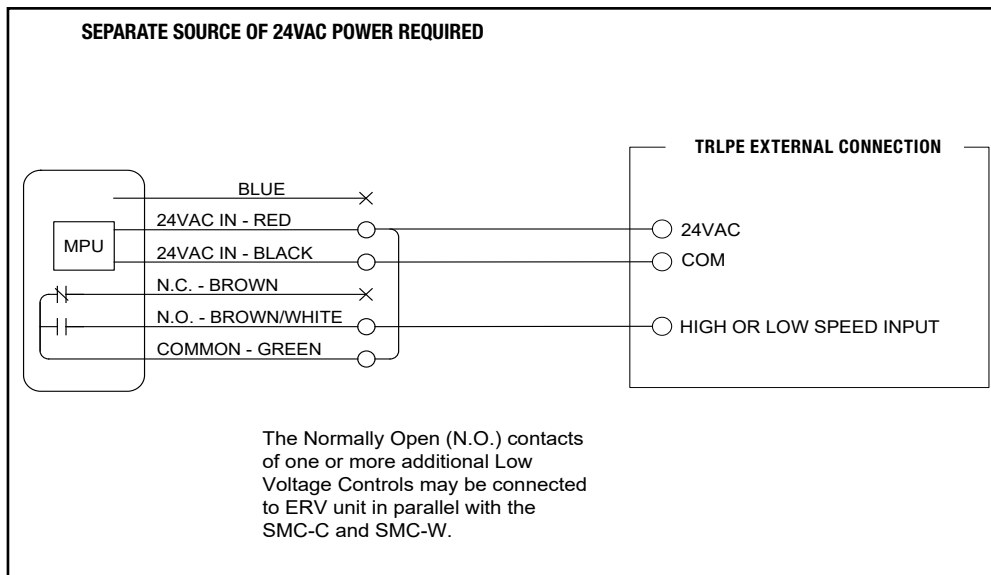


FIGURE 4.1.1 TRLPE SERIES SCHEMATIC

In this example, Motion Control Occupancy Sensor turns Energy Recovery Ventilator (ERV) on at High speed when space is occupied.

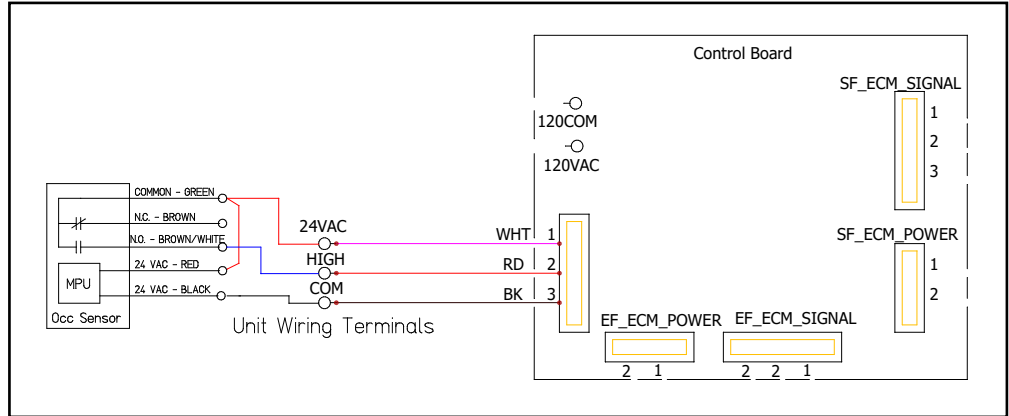


FIGURE 4.1.2 TRE SERIES SCHEMATIC

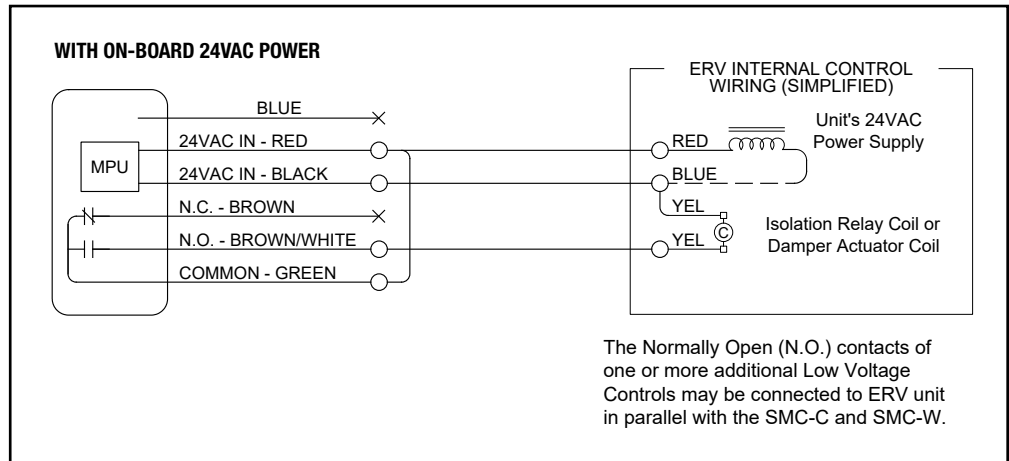


FIGURE 4.1.3 TRC500, TRC800, AND TRC1200—STANDARD WIRING (NON-ECM) SCHEMATIC

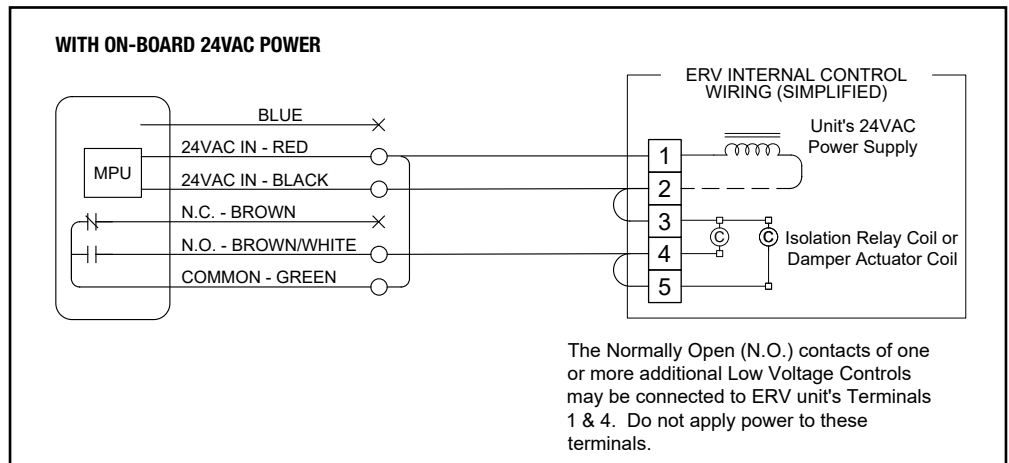


FIGURE 4.1.4 TRC1600—WITH STANDARD WIRING) SCHEMATIC



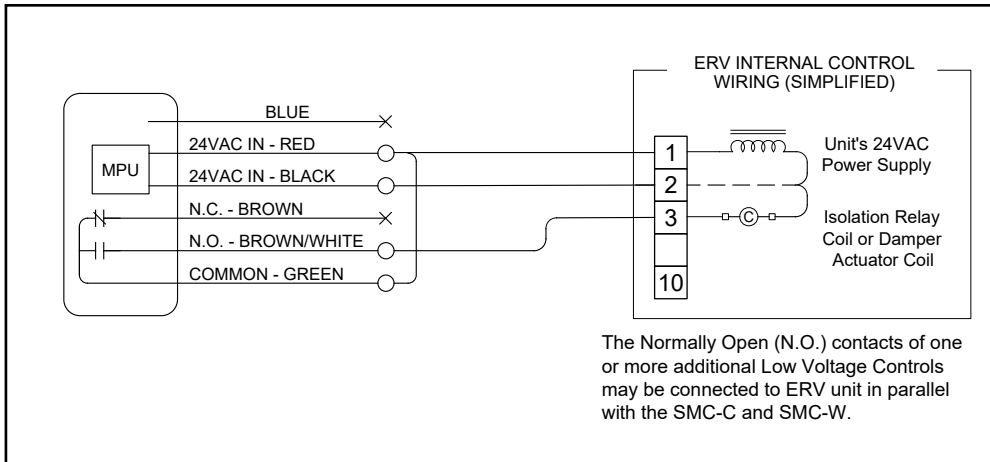


FIGURE 4.1.5 TRCE500—ECM WITH TERMINAL BLOCK (SPEED 1-LOW SPEED ON/OFF) SCHEMATIC

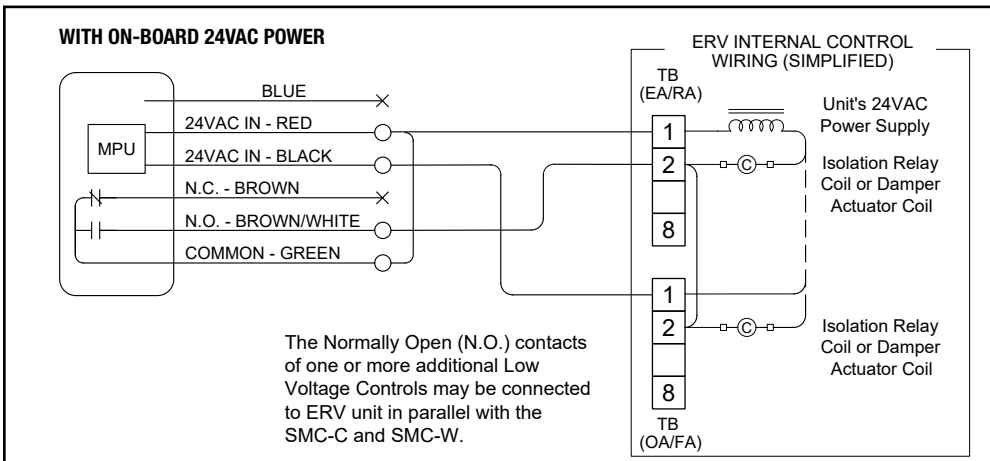


FIGURE 4.1.6 TRCE800 AND TRCE1200—ECM WITH TERMINAL BLOCK (SPEED 1-LOW SPEED ON/OFF) SCHEMATIC

In this example, Motion Control Occupancy Sensor turns the ERV on at speed set by potentiometer(s) when space is occupied. EV450 Circuit Board shown with one potentiometer. TRCE800 and TRC1200 Circuit Boards have two potentiometers.

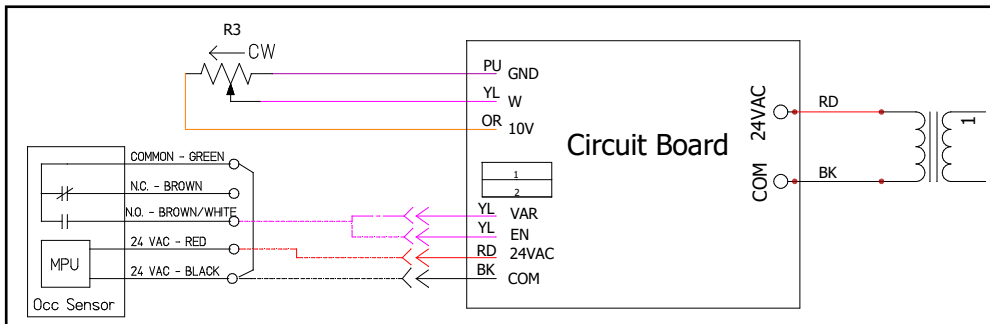


FIGURE 4.1.7 TRCE500, TRCE800, AND TRCE1200—ECM WITH CIRCUIT BOARD (SPEED 1-LOW SPEED ON/OFF) SCHEMATIC

**NOTES:**

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