Getting Started

**Key Features**

- **Easy Installation:** QSM can be mounted on a variety of ceiling materials (thicknesses range from 3/4 in. to 1 in.) with the adapter provided.
- **Easy Set-up:** QSM has auto-detection capabilities on the wired sensor inputs. After the inputs are properly sensed, the QSM will recognize the input device type after a valid signal is received.
- **ClearConnectTM Technology:** Up to 32 wireless devices, comprised of up to 10 Radio Pico® Sensors, 10 Radio Pico® Sensors, and 10 Pico® Wireless Controllers can be associated with QSM.

QSM Front View

## Installation

The QSM installation procedure is outlined below. Please follow these steps to ensure that the QSM will perform as intended.

### Choose a Location to Install

All wireless devices to be associated to the QSM must be within the specified range listed below. In addition, 4 wired input connections can be connected to the same QSM. Refer to the Wiring section for details.

**QSM wireless range:**

- 30 ft (9 m) line of sight
- 60 ft (18 m) through walls

**QSM wired range:**

- 60 ft (18 m) line of sight
- 120 ft (37 m) through walls

1. **Tools You May Need**
   - Screwdriver: Use a flat-head screwdriver
   - Pliers: To remove any stubborn screws
   - Drill: To drill holes for mounting the QSM
   - Wire stripper: To strip the wire insulation
   - Drywall saw: To cut through drywall
   - Philips head screwdriver: To remove the screws

2. **Wiring Devices**
   - **Sensor Input 1 (S1)**
   - **Sensor Input 2 (S2)**
   - **Sensor Input 3 (S3)**
   - **Sensor Input 4 (S4)**
   - **Data (terminals 3 and 4):**
     - Min. wire gauge 22 AWG (0.5 mm²)
     - Max. wire length 150 ft (46 m)

3. **Input Devices**
   - **Radio Pico® Sensors:**
     - 400 mA 434 MHz, wired and wireless input
     - 100 mA 434 MHz, wireless input only
     - 400 mA 865 MHz, wireless input only
     - 100 mA 434 MHz, wired and wireless input, junction box mount
     - 400 mA 434 MHz, wired and wireless input
   - **Radio Pico® Sensors (occupied):**
     - 400 mA 434 MHz, wired and wireless input
   - **Wireless devices:**
     - QSM 7-4W-C 24 V

4. **Clamp adapter to ceiling**

Using a Phillips screwdriver, tighten the clamp adapter to the ceiling. Do not overtighten.

5. **Run wires**

For each wired input that will be connected to the QSM, run wiring for QSM link and pull through the ceiling mount adapter hole. Leave enough space to connect to QSM. Refer to table for wiring information. Strip wire to 3/8 in (9 mm)

6. **Attach QSM to Adapter**

Attach the QSM into the ceiling mount adapter by inserting and twisting in a clockwise direction until the sensor locks into place.

7. **Set-up**

A. **Wired Input Devices (if available)**

1. Press and hold “Program” button on the QSM for 3 seconds to enter Sensor Association Mode. You will hear a 1-second beep upon entering. LED will blink twice every second in the sensor association mode.

2. For each wired device you wish to associate, press and hold the appropriate button on the QSM.

B. **Wireless Input Devices (if available)**

- Wireless devices must be associated to only one QSM before they are compatible to control system devices.
- When you choose to ignore the warning and try to associate the same input device to a different QSM, the QSM will not accept the new association.
- The QSM will respond with a 3-second beep.

8. **Program System Logic**

QSM is part of a system and cannot be used to control a load without a compatible system device with correct settings. After wired and wireless inputs are associated with QSM, the system logic must functionally be using a compatible system load control component (Energi Savr Node, Quantum, GRAFIK® Eye, etc.).