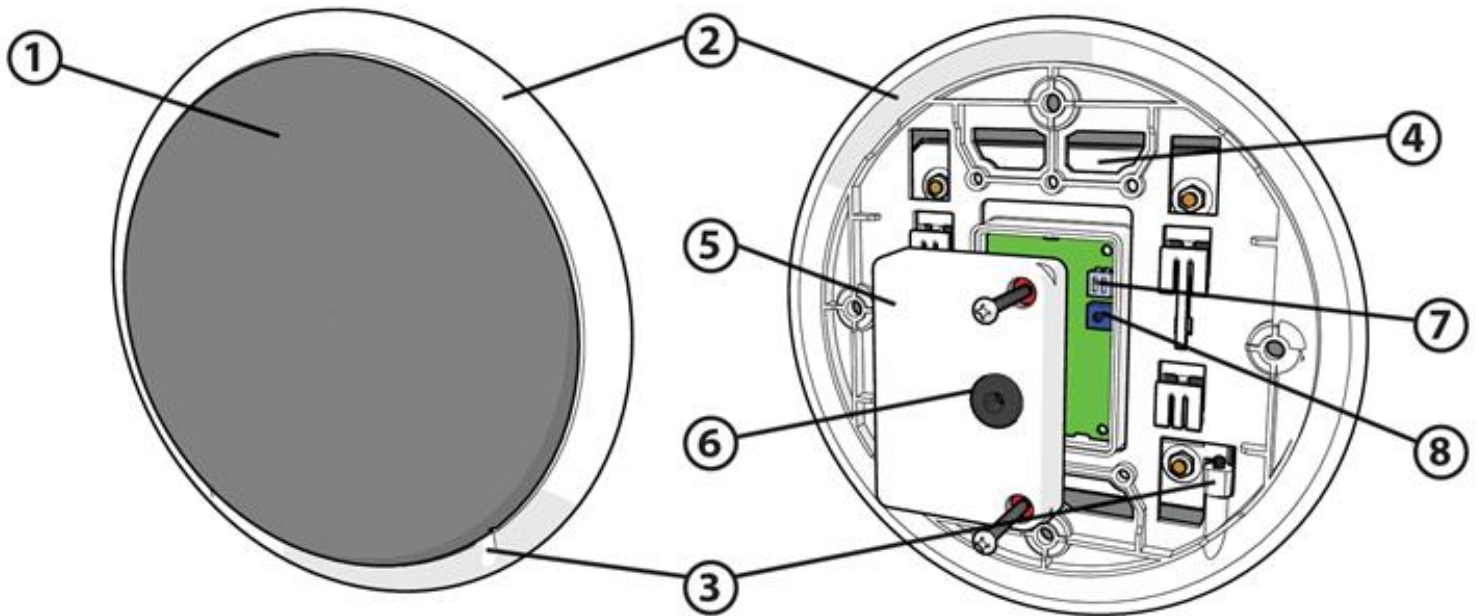


**DEVICES COVERED IN THIS DOCUMENT:**

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 2-659-0303 - 6" Rnd Text & Logo | 2-659-0305 - 4.75" Sqr Text & Logo |
| 2-659-0304 - 6" Rnd Logo Only   | 2-659-0306 - 4.75" Sqr Logo Only   |
| 2-659-0307 - 6" Rnd Text Only   | 2-659-0308 - 4.75" Sqr Text Only   |

**1. DESCRIPTION**



- 1. Faceplate
- 2. Mounting Ring
- 3. Set Screws
- 4. Backplate

- 5. NEMA 4 Enclosure
- 6. Wire Harness
- 7. DIP Switches
- 8. Potentiometer

**2. SPECIFICATIONS**

Technology	Capacitive Sensing
Detection Mode	Proximity
Supply Voltage	12-24 VAC/VDC
Current Consumption	37 mA (typical)
Temperature Range	-20°F to +120°F
Enclosure Rating	NEMA 4
Sensing Zone*	Maximum sensing zone of up to four (4) inches
Relay	1-Form A Solid State Relay 0.4A 60 VAC/VDC (max)
Dimensions (Overall)	6" Round - 7" (Dia) x 0.5" (D) 4.75" Square - 5.75" (H) x 5.75" (W) x 0.5" (D)
Wire Harness Length**	6 inches (5 conductor)
Material	Stainless Steel (Faceplate) Clear Polycarbonate (Mounting ring, backplate, enclosure)

\*Sensing Zone is dependent upon: Size(area), Orientation, and Speed of object and Environmental conditions

\*\*5 Conduct wire needed between sensor and door control

### 3. INSTALLATION

#### TIPS

- Single or double gang electrical box may be used (non-metallic ideal)
- Single gang electrical box recommended for 4.75" square version
- Set screws are 4/40 x 1/2" hex head screws, adjusted with 3/32" hex wrench (supplied)
- Supplied mounting screws are #6-32 x 1/2" Flat Phillips head screws

#### INSTALLATION

- 1) Install electrical box.
- 2) Remove two (2) set screws.
- 3) Disassemble (slide up, pullout) faceplate assembly from mounting ring.
- 4) Temporarily mount mounting ring to electrical box.

**NOTE: Observe "THIS END UP".**

- 5) Mark four (4) mounting ring mounting hole locations.
- 6) Remove mounting ring from electrical box.
- 7) Install four (4) wall anchors.
- 8) Mount (hand tighten) mounting ring to both electrical box and wall.
- 9) Remove back of NEMA 4 enclosure.
- 10) Complete Section 4 (WIRING) and Section 5 (SETTINGS AND ADJUSTMENTS) prior to proceeding to step 11.
- 11) Reinstall back of NEMA 4 enclosure.
- 12) Reassemble (Align, push in, slide down) faceplate assembly to mounting ring.
- 13) Reinstall two (2) set screws.
- 14) Test installation functionality and performance.

**CAUTION:** When installing near unprotected and/or uninsulated circuits, additional electrical isolation may be needed. The shrink tubing provided over the printed wiring board is rated minimum 150V, VW-1 and 80°C. This information may be taken into account to define whether additional insulation is required.

#### FUNCTIONALITY

**ACTIVATION** - Activation signal held until sensing zone is cleared (or until relearned). Audible Alert (if enabled) will pulse for 0.5 seconds at initial detection

**REJECTION** - An object must be within sensing zone for at least 130 milliseconds for detection to occur (i.e. parallel traffic rejection).

**TRACKING** - Reduced unwanted detections by allowing small variations in baseline capacitance (i.e. temperature/humidity changes). If stationary object remains within sensing zone for more than 5 seconds, a new capacitive zone will be learned and normal operation will resume (i.e. chewing gum stuck to faceplate).

## 4. WIRING

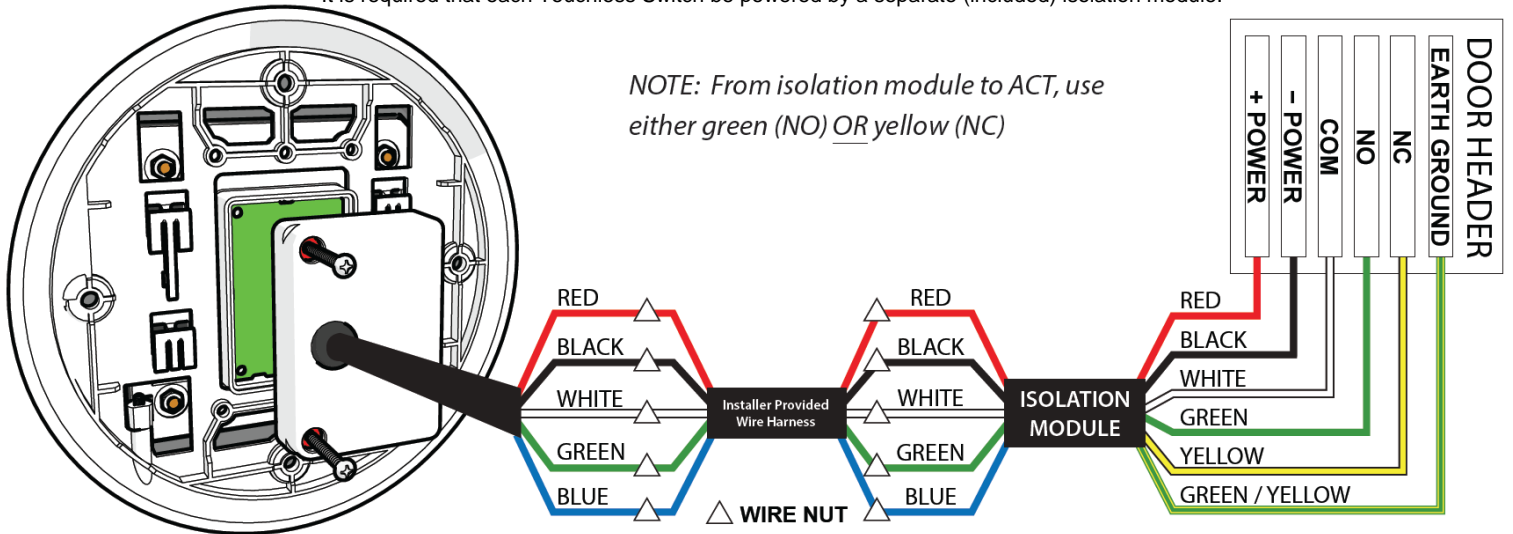
**IMPORTANT WIRING NOTES:**

**Be sure to always use the provided isolation module. \***

**If using a shielded wire harness, both ends of the shielding foil must be connected to Earth Ground.**

**If using a wire harness with more than 5 conductors, all extra conductors must be wired to Earth Ground.**

NOTE: It will take approximately 10 seconds to complete the initialization sequence once powered.  
\* It is required that each Touchless Switch be powered by a separate (included) isolation module.



Wire nut harness wires and isolation module wires together and connect isolation module wires to the door control, according to the chart below.

Isolation Module	Signal	Harness Wire	Isolation Module Wire	Door Control Terminal
To Door Control (6 wire side)	AC/DC +	-	Red	AC/DC +
	AC/DC -	-	Black	AC/DC -
	COM	-	White	ACT COM
	NO	-	Green	ACT NO
	NC	-	Yellow	ACT NC
	Earth Ground	-	Green/Yellow	Earth Ground
To Touchless Switch (5 Wire Side)	AC/DC	Red	Red	-
	AC/DC	Black	Black	-
	COM	White	White	-
	NO	Green	Green	-
	Earth Ground	Blue	Blue	-

## 5. SETTING & ADJUSTMENTS

**A – SENSING ZONE – potentiometer**  
COUNTERCLOCKWISE – decrease (0" minimum)  
CLOCKWISE – increase (4" maximum \*)

**B – AUDIBLE ALERT – DIP switch 1 (left)**  
ON – audible alert pulsed for 0.5 seconds during detection  
OFF – audible alert off

**C – LED – DIP switch 2 (RIGHT)**  
ON – LED on at rest, pulsed off for 0.5 seconds during detection  
OFF – LED off at rest, pulsed on for 0.5 seconds during detection

