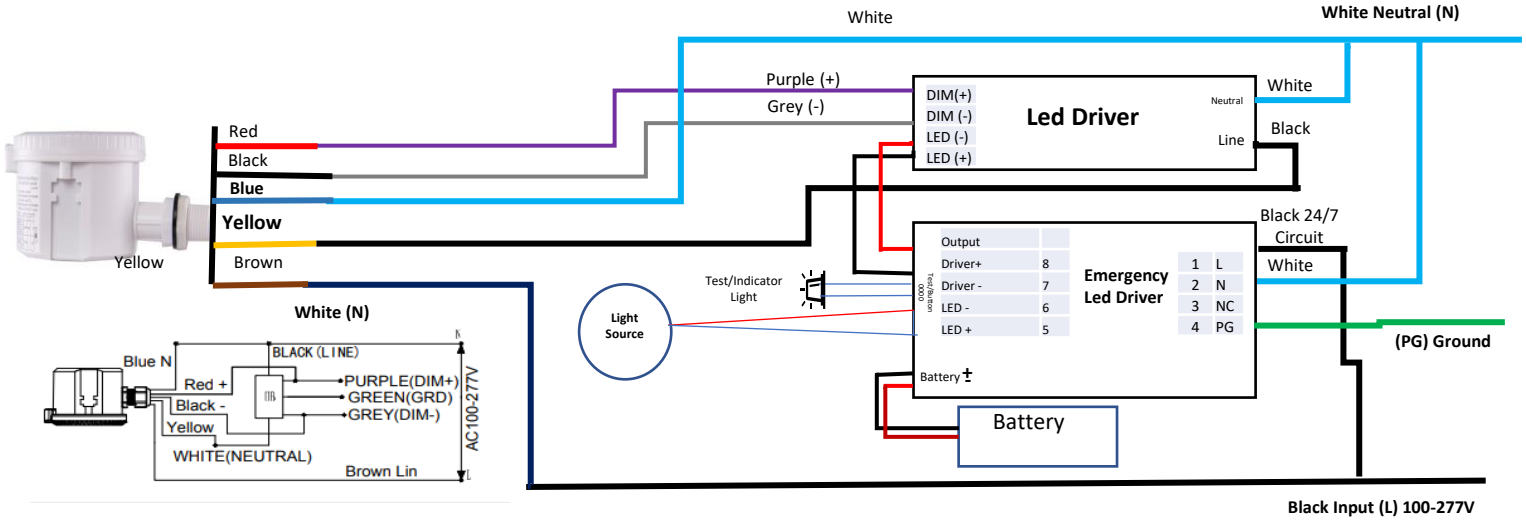
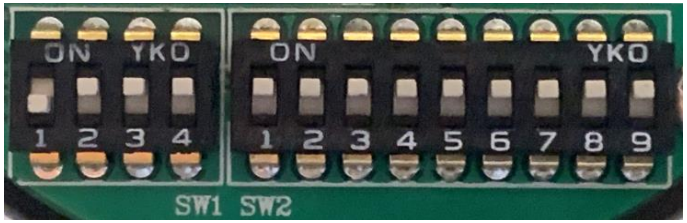
Wiring Instructions for 86/202 Microwave Sensor with Emergency Battery Back-up Fixtures
65/1152, 65/1153, 65/1155, 65/1156.

- **Turn off electrical power at fuse or circuit breaker box before wiring Microwave Motion sensor.**

Step 1: Connect the Brown Wire From Motion Sensor to Main Circuit Load Lead (L) Wire (**This is The Switching Line**).
Step 2: Connect the Yellow Wire from Motion Sensor to Black Wire on the Fixture LED Driver.
Step 3: Connect the Blue Wire from motion sensor to the Main White wire from the circuit and White wire on the Fixture LED Driver.
Step 4 : Connect the Black Wire from the **Emergency LED Driver** to the Main Load (L) Circuit (This is your None-Switched Line 24/7).
Step 5: Connect the Red Wire from the Motion sensor to the Purple wire (+) from the Fixture LED Driver.
Step 6: Connect the Black Wire from the Motion Sensor to the Grey wire (-) from the Fixture LED Driver.
Step 7: Connect the (+) and (-) leads from the Fixture LED Driver to the Emergency LED Driver (Driver +(8) and –(7).
Step 8: Connect the Test Button and Indicator Light Leads to the Emergency LED Driver.
Step 9: Check Battery Connection on the Emergency LED Driver Test/Button connecting pins.
Step 10: Restore power at the source and the installation is complete.



86/202 Microwave sensor Settings



SETTINGS (DIP SWITCH)

Detection area, hold time, stand-by period, stand-by DIM level and daylight sensor can be set by using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.

Detection area

I: up to 100%
II: up to 50%

ON	1	
I	ON	100%
II	-	50%

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

I: 5s
II: 30s
III: 1min
IV: 3min
V: 20min
VI: 30min

ON	2	3	4	
I	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	1min
IV	-	-	ON	3min
V	ON	ON	-	20min
VI	-	-	-	30min

Stand-by dimming level

This is the pre-setting dimming level you would like to have after the hold time in the long absence of people.

I: 10%
II: 20%
III: 30%
IV: 50%

ON	4	5	
I	ON	ON	10%
II	ON	-	20%
III	-	ON	30%
IV	-	-	50%

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

I: 5lux, darkness operation only
II: 15lux, darkness operation only
III: 30lux, twilight operation
IV: 50lux, twilight operation
V: 100lux, twilight operation
VI: 150lux,twilight operation
VII: Disable*

ON	6	7	8	9	
I	ON	ON	ON	ON	5Lux
II	-	ON	ON	ON	15Lux
III	ON	-	ON	ON	30Lux
IV	-	-	ON	ON	50Lux
V	ON	ON	-	ON	100Lux
VI	ON	ON	ON	-	150Lux
VII	-	-	-	-	Disable

*When set to Disable Mode, the sensor will switch on the lamp when motion is detected regardless of ambient light levels.

Stand-by period

Refers to the time period the lamp remains at a pre-setting dimming level before it completely switches off in the long absence of people.

I: 0s
II: 1min
III: 3min
IV: 10min
V: 30min
VI: +∞

ON	1	2	3	
I	ON	ON	ON	0S
II	-	ON	ON	1min
III	ON	-	ON	3min
IV	-	-	ON	10min
V	ON	ON	-	30min
VI	-	-	-	+∞

*When set to 0s, the lamp will work as on/off function

*When set daylight sensor to "Disable" and stand-by period to "+∞" .the lamp will work as 2-step dimming control (Motion detected, 100% lumens, no motion, remains at pre-setting level lumens)