The W3016-16-RGB with SensaSynth2 embedded effects engine delivers interactive lighting and video effects that operate stand-alone, without an external controller. The SensaSynth2 system creates interactive experiences that are defined from a set of simple rules and procedures which act on a range of visual source elements; colors palettes, videos, oscillators and random 'noise' generators. Sensors control how these visual sources are mixed, modified and displayed in real time, creating dynamic interactive visual experiences.

**Main Features**
- 16 high brightness RGB LEDs. 75 mm pixel pitch
- 16 capacitive motion / proximity sensors with 75 mm sensing range
- Built-in SensaSynth2™ interactive effects engine - fully programmable
- 20 minutes of 30/fps on board embedded video storage
- 200 user programmable on board presets
- Stand-alone operation
- Reliable, easy to install
- Simple wall mounting system
- Compatible with 100's of different surface materials
- Low power - great for green projects
- Minimal heat output

**Mounting System**

*This is an optional accessory*
## Specifications

### Physical

| Module size | Module chassis + Rear mounting plate: 293.0mm x 293.0mm x **25.0mm** / 11.535" x 11.535" x **0.984"**
| | Module chassis + Rear mounting plate + Surface carrier: 293.0mm x 293.0mm x **37.5mm** / 11.535" x 11.535" x **1.476"**
| Weight | Module chassis: 811 grams / 28.61 ounces
| | Rear mounting plate: 19.5 grams / 0.69 ounces
| | Surface carrier: 240 grams / 8.46 ounces
| Mounting pitch | 300.0mm / 11.811" - module to module
| LED pixel resolution | 75.0mm / 2.952" pitch.
| Construction | Injection molded plastic, PCB, Flame retardant to UL94V-0
| Environmental range | Operating: -35 to 49 C / -30 to 120 F. Humidity: 5 to 90% - non condensing.
| | Storage: -45 to 65 C / Storage: -50 to 150 F
| Lighting | 16 addressable pixels @ 75.0mm / 2.952" pitch.
| | 16 digital gamma corrected PWM dimmers with 256 brightness levels
| Sensors | 16 x capacitive sensors, intelligent, adaptive.
| | Sensing distance: 76mm / 3"
| | Sensor response time: 100 milliseconds.

### Electrical

| Power | 5.5 Watts, 24 Volts DC, 0.22 A Max. 0.025 A Nominal
| | Power input connector: 1/4" Faston terminals
| Communications | RS-485 half-duplex 230,400 Baud
Modular Interactive Proximity Sensor and Lighting System

Sensacell Module: W3016-16-RGB

Dimensions - For 2D and 3D CAD drawings please go to www.sensacell.com
Typical Wall Installation #1

1. Attach the rear mounting plates on the wall.
2. Install the electrical wiring.
3. Snap-in the modules with attached surface material.

Add two jumpers to each module prior to attaching to rear mounting plate. QTY: 2 times

Make sure they are level