## SENSORS AND CONTROLS







### SENSORS AND CONTROLS Spec Sheet Order Logic Codes Reference Guide



Metalumen offers intelligent standalone and connected luminaires with a range of integrated sensing and control\* connectivity options. The table below highlights common combinations. For other solutions or specific sensing needs, contact us to discuss your project requirements.

\*Control system installation and commissioning by others.

Examples:

WattStopper Daylight Sensor Standalone Luminaire: XXXX-1LXXK-12-MB-W-LX1-X-1-**DW**-XX Occupancy Sensor with Casambi Wireless Bluetooth Mesh Control Capability: XXXX-1LXXK-12-MB-W-LX1-X-1-**O-CAB**-XX

ORDER LOGIC FIELDS		SENSOR FEATURE / BEHAVIOR				
11. SENSORS		12. CONTROLS	OCCUPANCY (PIR)	DAYLIGHT HARVESTING	CONNECTIVITY	DESCRIPTION
OF	-		le l	None	Standalone	Factory Sensor - Occupancy Behaviors configured via BLE App
ow	-		en e	None	Standalone (WattStopper)	Wattstopper Standalone Occupancy Sensor
DW	-		None	<u> </u>	Standalone (WattStopper)	Wattstopper Standalone Daylight Harvesting Sensor
ODW	-		₩°.	Č	Standalone (WattStopper)	Wattstopper Standalone Occupancy and Daylight Harvesting Sensors
o	-	САВ	le l	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	САВ	e e e e e e e e e e e e e e e e e e e	, Š	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity with Daylight Harvesting and Occupancy Sensing
	-	САВ	None	None	Casambi Bluetooth Mesh	Casambi Bluetooth Mesh Connectivity (no sensors)
o	-	SLVR	ů.	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Occupancy Sensing
OD	-	SLVR		, Š	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity with Daylight Harvesting and Occupancy Sensing
	-	SLVR	None	None	Silvair Bluetooth Mesh	Open Standard Bluetooth Mesh Connectivity (no sensors)
	-	OSRM	None	None	Osram Encelium	Osram Encelium connectivity
OD	-	OSRM	e k		Osram Encelium	Osram SensiLum Connectivity for Enclelium with Occupancy and Daylight Harvesting
OD	-	ENL	ш Ж	ČČ.	Enlighted ONE	Occupancy and Daylight Harvesting Capable Supports EnlightedONE room control as well and upgrade path for Enlighted Connected and Enlighted IoT offering advanced applications, analytics and insights for Space Utilization/Optimization, Asset Tracking, Energy Monitoring, HVAC Integration etc
	-	DALI	None	None	DALI addressable wired Luminaire	Generic DALI addressable luminaire
	-	ECOS	None	None	Lutron Ecosystem	Lutron Ecosystem addressable wired luminaire NOTE: See Driver Selection options for specific driver
	-	AWNR	None	None	Lutron Athena Wireless Node	Lutron Athena wireless node integral fixture control (RF only)
OD	-	AWNS	je A		Lutron Athena Wireless Node	Lutron Athena wireless node integral fixture control (RF with daylight and occupancy sensing)

#### **METALUMEN SENSORS & CONTROLS REFERENCE GUIDE**



### INTELLIGENT STANDALONE LUMINAIRES

Metalumen offers intelligent standalone luminaires with integrated occupancy and/or daylight harvesting capabilities. Standalone luminaires offer independent control based on integrated sensors (i.e. Occupancy and/or Ambient Daylight).

A common approach today is to utilize a single occupancy or daylight sensor in a given space that controls multiple luminaires that are hardwired to the sensor as a physical group. This single occupancy sensor, for example, will turn the whole group of luminaires on or off based on its sensing configuration.



Look for the Metalumen Intelligent Luminaires logo on spec sheets and our website to identify luminaires with sensor and control options.



Intelligent standalone luminaires operate differently in that each luminaire has its own dedicated sensor. Each luminaire responds to the conditions its dedicated sensor detects. This allows for more granular control and localized illumination adjustments that can result in further potential energy savings or more flexible configuration.

Some sensor options are available with flexible configuration via Bluetooth thus eliminating the need to open luminaires, climb ladders or adjust dip/rotary switches. Bluetooth configuration allows for simple and flexible adjustment of the behaviors (vacancy delay times, hold times, intensity, sensitivity etc.) via an intuitive mobile App. If your application needs change, you can simply and quickly adjust behaviors directly via the mobile configuration app.

Contact Metalumen if you have specific sensor preferences/requirements and we can work with you to provide the solution you require.

#### INTELLIGENT CONNECTED LUMINAIRES

Metalumen offers many different options for connecting luminaires to your favorite smart lighting control platform enabling maximum control flexibility and building code compliance. Intelligent connected luminaires enable flexible reconfiguration of zones and lighting behaviors allowing quick and easy adjustment to spaces as your needs evolve. Data from fixture integrated connected sensors can also enable advanced insights into building operations such as occupancy and space utilization, energy consumption, and environmental conditions (i.e. temperature and/or humidity). This data and more can be shared with other building systems (HVAC, Security etc.) or used for other advanced IoT applications and insights.

Many options are available as fixture integrated solutions or via external modules. Please contact Metalumen for more details and to check for availability in the luminaire you want.

\*Control system, installation and commissioning provided by others.



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#### BENEFITS

- Support for advanced sensing such as daylight harvesting, temperature monitoring, occupancy/vacancy sensing.
- Monitoring and reduction of energy usage.
- Meet requirements for compliance with building and energy codes.
- Simple re-zoning/grouping allows reconfiguration of areas to meet the dynamic and changing needs of your space.
- Monitoring of space utilization enables potential identification of wasted underutilized space that may be costing you money, or represent income opportunities.
- Provide customized / personal user-based control for optimum occupant comfort and productivity.

#### PARTNERS / COMPATIBILITY



This innovative sensor can drive indoor lighting to match the color and intensity of the sunlight throughout the day or create artistic lighting scenes that will make midnight feel like a sunny afternoon. Designed for applications in which physiological, psychological, or aesthetic improvement through circadian lighting is a priority, SolarSync accurately mirrors sunlight through tunable white lighting control.

# SILVAIR

Silvair's robust wireless technology is used across the globe, enabling solutions to transform new and existing buildings with minimum disruption, fast ROI, and IoT opportunities. Silvair is driving the shift towards sustainable, high-performance, intelligent buildings.

## Wattstopper<sup>®</sup>

Standalone luminaire sensors enabling on/ off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.



Lighting Control For The Modern World; The most robust, cost effective and future proof wireless lighting control solution.

### **②LUTRON**®

A two-way digital network that enables on/ off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum®, Energi Savr Node™, and Energi TriPak® using EcoSystem® communication protocol.



HUBBELL Control Solutions

Hubbell Control Solutions' NX Distributed Intelligence™ platform delivers a seamless lighting control solution. NX manages projects from a single room, to entire buildings and multi-location properties. NX offers complete flexibility in project design by offering both wired and wireless options, with a common user interface.