

Integrated Sensor

-Internal Use Only-

Specifications

Features

- Occupancy detection
- Continuous daylight dimming
- Out-of-the-box code compliance
- Personal control via remote
- Customize default settings on the line
- 0-10 V dimming
- Energy saver mode
- Occupancy sensitivity
- Fresnel lens | coverage
- Multiple length cable harness allowing flexible placement

Overview

The Integrated Sensor system is an integrated control system that provides occupancy and daylight dimming controls. Daylight dimming is implemented as a closed loop control. The system is a low-cost, out-of-the-box solution to lighting code compliance with the added benefit of personal control after commissioning. Indoor and outdoor focused products have been developed.



If implementing please contact:

Mike Lunn | Product Manager | 770.486.4328

System wiring diagram

Three components:

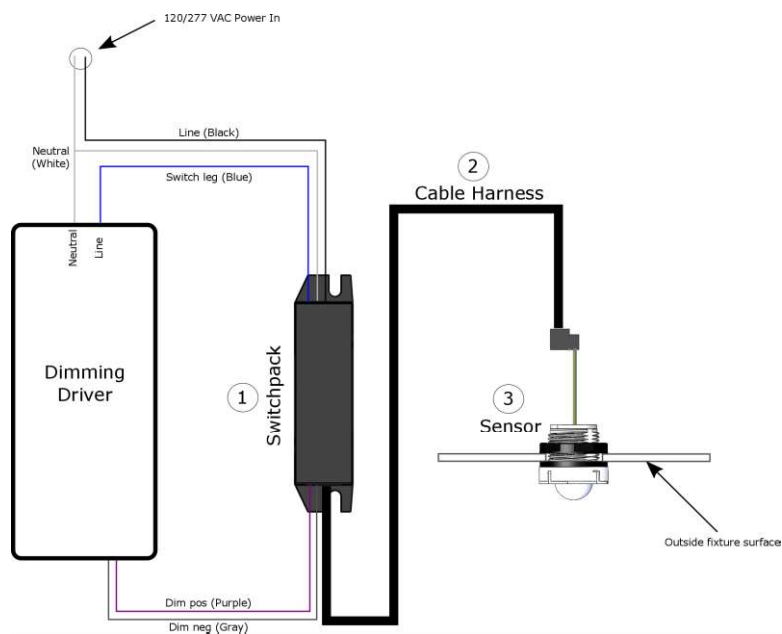
1. Switchpack
2. Cable Harness
3. Sensor

Note:

Indoor wiring is identical to outdoor.

Personal control:

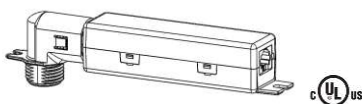
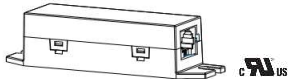
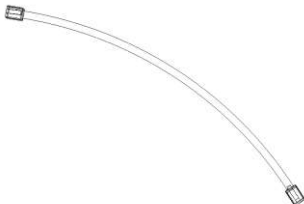
- See remote (separate document)



Outdoor Wiring Diagram

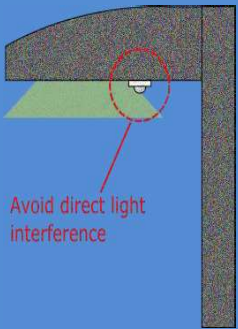
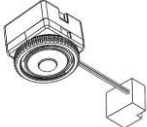

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1. Switchpack control module																																				
<div>Switchpack specifications</div> <div>Operating Temp: -30° to 70° C amb.</div> <div>Enclosure: Polycarbonate</div> <div>Connector Type: RJ-11 plug</div> <div>Input: 120/277 VAC 1.4/1.0 mA 50/60 HZ</div> <div>Leads: 600 VAC 105° C 18 AWG 5" min. Black Line White Neutral Blue Switch leg</div> <div>Output: Blue switch leg Max 3A @ 120-277 VAC 50/60 HZ Electronic or magnetic RJ-11 port Cable Class 2 power supply UART communication</div> <div>Dimming Control: 0-10V sink Low 0.7 V High 9.8 V Purple (Dim +) Grey (Dim -)</div>	<div><div>Indoor Switchpack</div><table><tr><td>L</td><td>6.55"</td><td>166.4 mm</td></tr><tr><td>W</td><td>1.10"</td><td>27.9 mm</td></tr><tr><td>H</td><td>1.08"</td><td>27.4 mm</td></tr></table><div>Mounting</div><div>Option 1 (Two screws)</div><table><tr><td>Slot-to-slot</td><td>6.26"</td><td>159.0 mm</td></tr><tr><td>Slot dia.</td><td>0.20"</td><td>5.1 mm</td></tr></table><div>Option 2 (One screw + locknut)</div><div>90° Adapter included</div><div>Threads ½" – 14 NPSL</div><div>SAP Information</div><table><tr><td>Catalog No.</td><td>MSP03-ANI-MV</td></tr></table></div>	L	6.55"	166.4 mm	W	1.10"	27.9 mm	H	1.08"	27.4 mm	Slot-to-slot	6.26"	159.0 mm	Slot dia.	0.20"	5.1 mm	Catalog No.	MSP03-ANI-MV	<div><div><div>*To be mounted inside fixture enclosure</div><div>Outdoor Switchpack</div><table><tr><td>L</td><td>4.17"</td><td>105.9 mm</td></tr><tr><td>W</td><td>1.01"</td><td>25.7 mm</td></tr><tr><td>H</td><td>1.02"</td><td>25.9 mm</td></tr></table><div>Mounting</div><div>Two Screws</div><table><tr><td>Slot-to-slot</td><td>3.63"</td><td>92.2 mm</td></tr><tr><td>Slot dia.</td><td>0.20"</td><td>5.1 mm</td></tr></table><div>SAP Information</div><table><tr><td>Catalog No.</td><td>MSP03-ANO-MV</td></tr></table></div></div>	L	4.17"	105.9 mm	W	1.01"	25.7 mm	H	1.02"	25.9 mm	Slot-to-slot	3.63"	92.2 mm	Slot dia.	0.20"	5.1 mm	Catalog No.	MSP03-ANO-MV
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2. Cable harness																																				
<div>Cable harness specifications</div> <div>Max Temp: 75°C (non-plenum) 105°C (plenum CMP)</div> <div>Connector Type: RJ-11</div> <div>Wire Diameter: 0.21" (non-plenum) 0.13" (plenum)</div> <div>Plenum: In building construction, a plenum is a separate space provided for air circulation for HVAC and typically provided in the space between the structural ceiling and a drop-down ceiling.</div> <div>Takeaway: Plenum rated cable harnesses are available if product must comply with plenum standards.</div>	<div><div>Cable Harness</div><div>SAP Information</div><table><tr><th>Catalog & Material No.</th><th>Length</th><th>Plenum rated?</th></tr><tr><td>5140-000121-00</td><td>22"</td><td>Yes</td></tr><tr><td>5140-000122-00</td><td>42"</td><td>Yes</td></tr><tr><td>5140-000123-00</td><td>54"</td><td>Yes</td></tr><tr><td>5140-000124-00</td><td>12"</td><td>No</td></tr><tr><td>5140-000125-00</td><td>22"</td><td>No</td></tr><tr><td>5140-000126-00</td><td>42"</td><td>No</td></tr></table><div>*Strain relief recommendation: Add strain relief to the cable harness near the sensor and switchpack. (i.e. zip ties fastened to the fixture)</div></div>			Catalog & Material No.	Length	Plenum rated?	5140-000121-00	22"	Yes	5140-000122-00	42"	Yes	5140-000123-00	54"	Yes	5140-000124-00	12"	No	5140-000125-00	22"	No	5140-000126-00	42"	No												
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3. Sensor		
Sensor specifications Operating Temp: -25° to 70° C amb. Enclosure: Polycarbonate Connector Type: RJ-11 plug pigtail Input: Class 2 power 5-12 VDC 10 mADC (LED on) 3 mADC (LED off) I/O: UART communication 3.3 VDC 9600 Baud rate 1 start bit 1 stop bit Error check no parity Caution: Mounting sensor in a location subject to direct light from the fixture may result in poor performance. 		
	Indoor Sensor L 1.12" 28.5 mm W 1.12" 28.5 mm H 1.15" 28.6 mm Threads ¾" – 14 NPSL Mounting Hole with locknut (included) Diameter 1.10" 27.9mm SAP Information Catalog No. MLSI-P-500-W	
		
	Outdoor Sensor H (total) 1.89" 48.0 mm H (external) 0.96" 24.4 mm Diameter 1.70" 43.2 mm Threads 1" – 11 ½ NPSL Mounting Option 1: Hole with locknut (included) Diameter 1.30" 33.0 mm Option 2: Threaded (discard locknut) Threads 1" – 11 ½ NPSL L (threads) 0.93" 23.6 mm SAP Information Catalog Nos. See below <u>900 ft² coverage</u> White MLSO-P-900-W Bronze MLSO-P-900-BZ <u>1200 ft² Coverage</u> White MLSO-P-1200-W Bronze MLSO-P-1200-BZ	

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