

COLORS AND LIGHTS UNDER YOUR CONTROL

Zigbee PIR, Photo & Lighting Control **ON/OFF & 0-10V Dimming**



Product Features

- ZigBee Wireless Control of Luminaries
- ZigBee Occupancy Sensor, & Photo Sensor
- 2.4GHz, +20dBm ZigBee transmit power
- 0-10V Analog Dimming Control, 50mA Sink
- Compatible with Electronic Ballasts & LED Drivers that comply with IEC60929 Annex E2, 0-10V Dimming.
- Best when used with Dim to Zero (Dim to OFF) Ballasts & LED Drivers

Safety and Compliance

- 1. UL916 Listed
- 2. FCC ID: 2AJ2N-S830-PL-DZB, FCC Class B
- 3. ZigBee 3.0 compatible
- 4. Mount 1/2 Inch Trade Size Knockout, Dust Proof Design IP50



AUX +12VDC

AUX Common

Dimming LED Driver or **Dimming Ballast**

(0-10V)

EuControl Contact: Info@EuControls.com | Los Angeles, CA 90248 | 888 535 9580

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1. Operating temperature: 0 to +60°C

Electrical Specifications at 25°C

2. Storage temperature range: -10C to +70°C

5. Vibration Frequency: 5-55Hz/2g, 30 minutes

Input: UL Class 2 DC voltage 12VDC (10 to 14VDC)

Input Current Draw: 60mA, 200mA Peak during transmit.

3. Humidity (non-condensing): 5% - 95%RH

Environmental

Drivers.

4. Cooling: Convection

6. Impact resistance: 1g/s



• 0-10V Dimming intended for use with Dim to Zero/Dim to OFF Ballasts and LED

Part Numbers

AC Line (BLACK)

AC Neutral (WHITE)

See warnings on page 4.

Typical Application Circuit

12VDC UL Class

2 Power Source

VIOLET (0-10V) Dim+ Control PINK (0-10V) Dim- Control Legacy Dim- = GRAY

FCC ID 2AJ2N-S830-PL-DZB: Channel 11 to 25

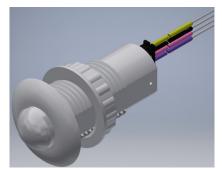
Part Number	Dimming US & CN Class 2	Control	ON/ OFF Control	Dimming 0-10V Analog	Photo Sensor	PIR Occupancy Sensor
S830-PL-DZB	YES	Zigbee 3.0	YES via Dim	YES	YES	YES
S830-DZB	YES	Zigbee 3.0	YES via Dim	YES	NO	NO

S830

Mating Connector: Hirose DF3-4S-2C 4-Pin PIN1=+12VDC (YELLOW) PIN2=12VDC RETURN (BLACK) PIN3=DIM-(PINK) PIN4=DIM+ (VIOLET)

S830-DZB

S830-PL-DZB



Specifications subject to change without notice

+ Light + Photo + Temp

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S830-ACC-CNR1M

Accessory 1M Cable

S830 +12VDC

S830 DIM-S830 DIM+

S830 12VDC GNE



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FCC ID 2AJ2N-S830-PL-DZB: Channel 11 to 25 See warnings on page 4.

Mechanical Dimensions: Inches [mm]

Material: 5VA PC Plastic Case Weight: 14 Grams (0.46 oz.) Typical

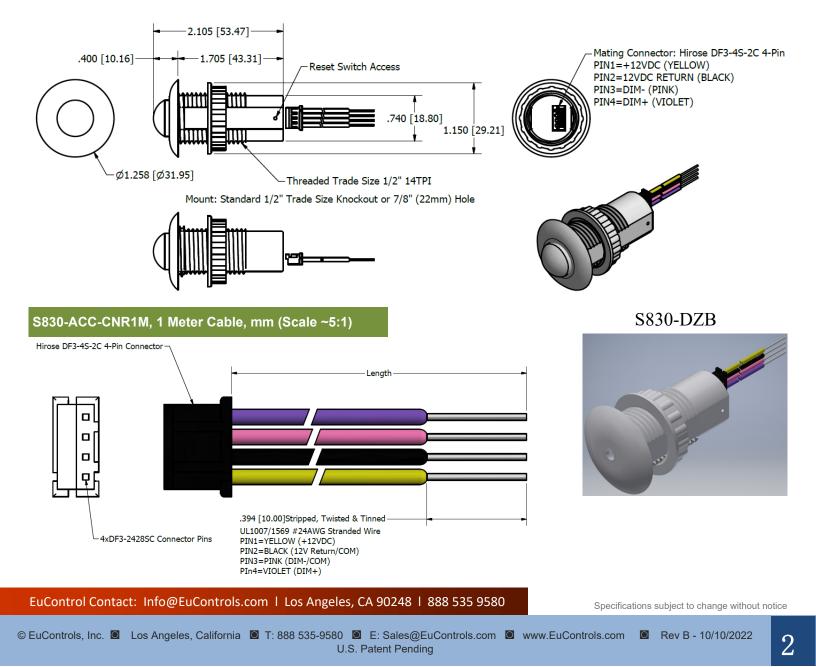
Notes:

RED Occupancy LED Visible through PIR Lens. GREEN Zigbee LED Visible through PIR Lens. S830-DZB GREEN Zigbee LED Visible through Flat Cover Reset switch is located on flat side of case near connector.



Labeling Example

C Input Voltage: 12VDC +/5% @≤ 200mA 0-10V Sink Dimming Output @50mA Max. Operating Temp: 0C to +60C C ID: 2AJ2N-S830-PL-DZB FCC ID: 2AJ2N-S830-PL-DZB FCC ID: 2AJ2N-S830-PL-DZB FCC ID: 2AJ2N-S830-PL-DZB FCC ID: 2AJ2N-S830-PL-DZB





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Input Specifications

Parameter	Min.	Тур.	Max.	Notes/Conditions	
Input Voltage	10	12	14	V DC, UL Class 2 Power Source	
Input Current		60mA	200mA Peak	mA DC, Peak occurs during transmit	
ZigBee Control Transmit Power			+20dBm	ON/OFF, 0-10V dimming & Photo Sensor, Standard Zigbee	
ZigBee Control Receive		-95dBm		Zigbee Radio Receive Sensitivity	
Photo Sensor Range	1		300fc	Precision Optical Filtering Matches the Human Eye	

Output Specifications

Parameter	Min.	Тур.	Max.	Notes/Conditions
Sink Current on 0-10V (+) Violet Wire	0mA		50mA	IEC60929 Annex E2
Absolute Voltage Range on 0-10V (+) Violet Wire	-20.0V		+20V	IEC60929 Annex E2
Dimming Range	0.2V		+10V	Ballast or Led Driver provides Dim Voltage & Current per IEC60929 Annex E2, 0(1)-10V Analog Dimming

Environmental Specifications

Parameter	Min.	Тур.	Max.	Notes/Conditions
Operating Temperature (Ta)	0 °C		+60 ⁰ C	Operating temperature range.
Storage Temperature (Ts)	-10 ⁰ C		+70 ⁰ C	Non operating temperature range.
Operating Humidity		_	95% RH	Relative Humidity, non-condensing.
Vibration	5 Hz		55 Hz	2G, 10 minutes/1 cycle, period 30 minutes, each along X, Y, Z axis.

Safety & EMC Compliance

Safety	Notes/Standards	
UL/CUL Listed	UL916, CSA22.2 NO. 205	
CE	EN61347-1, EN61347-2-13	
0-10V Class 2 Dimming Circuit	UL & cUL Class 2, Dim+ Violet/Dim– Pink. (Using a 12VDC UL Class 2 Power Source)	
FCC	FCC ID 2AJ2N-S830-PL-DZB CH11 to CH25, Also Certified to FCC Class B, See Warnings on page 4.	

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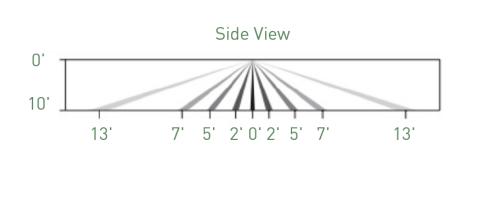
Specifications subject to change without notice

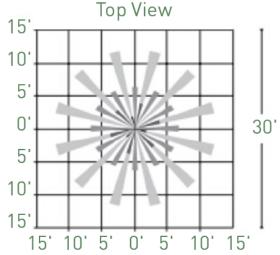


Zigbee PIR, Photo & Lighting Control ON/OFF & 0-10V Dimming

ZigBee Wireless S830-PL-DZB PIR + Light + Photo + Temp

Standard Lens Coverage





FCC ID 2AJ2N-S830-PL-DZB: Channel 11 to 25

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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