Allure™ EC-Smart-Comfort Series

Communicating sensors with Smart-Light and Smart-Blind add-on modules

Overview

The Allure EC-Smart-Comfort Series are versatile communicating sensors which provide precise temperature sensing.

Tailored for occupants, the Allure EC-Smart-Comfort Series' intuitive design features coloured LED indicators to provide user feedback, rotary knobs to adjust the setpoint offset and fan speed, and a push-button to apply occupancy override.

As a multi-function room device, the Allure EC-Smart-Comfort Series sensor can be expanded with a combination of up to 4 Smart-Light/Blind Series add-on push-button modules, for lighting and shade/sunblind control, making it an ideal all-in-one addition to the Smart Room Control solution.

Features & Benefits

- Compatible with the ECL series LonWorks® Controllers, ECB series BACnet® Controllers and ECLYPSE™ series BACnet/IP and Wi-Fi Controllers, including the Smart Room Control solution.

- Dedicated rotary knobs for setpoint offset and fan speed adjustment, and its override occupancy pushbutton allow occupants to easily adjust comfort parameters

- All models come with an on-board temperature sensor for a precise feedback based temperature control

- Select models feature a push-button occupancy indicator, to allow occupants to override system schedules: occupied, unoccupied or standby mode

- Lighting & shade/sunblind management with the addition of up to 4 clip-on Smart-Light and Smart-Blind add-on modules

- Available with 8 digital inputs for connection to existing or architect-specified light and shade/ sunblind switches, or for use with other room device outputs

- The Allure EC-Smart-Comfort Sensor is wired to the dedicated subnet port on the controller which frees up controller inputs

- Both power and communications pass through a single Cat 5e cable for reduced installation costs and easier installation

- Included quick-link connectors accelerates installation time by up to 75%

- Versatile mounting options including dry wall, or North American, European, Swiss, or Asian style switch box

- Error feedback with EC-*gfx*Program enables technicians to troubleshoot problems

Model Selection

Example: Allure EC-Smart-Comfort-S**F-DI**

Series	Functionality	Digital Inputs
Allure EC-Smart-Comfort-S	[blank]: no Occupancy Management, no Fan Speed *O*: Occupancy Management *F*: Fan Speed *OF*: Occupancy Management, Fan Speed	[blank]: None *-DI*: 8

Accessories

Smart-Light/Blind modules[1]	Description
Smart-Light-1	Add-on Module for the control of 1 dimmable lighting group
Smart-Light-2	Add-on Module for the control of 2 ON/OFF lighting groups
Smart-Blind	Add-on Module for the control of 1 shade/sunblind group

1. Each Smart-Light/Blind Series add-on module uses 2 digital inputs.

Product Specifications

Power Supply Input

Voltage	16 VDC maximum, Class 2
Power Consumption	At the connected controller, an additional 0.25 VA

Communications

Rate	38 400 bps
Communications	RS-485
Wiring	Cable length: 600 ft (180 m) maximum
Cable Type	T568B Cat 5e network cable, 4 twisted pairs
Connectors	**IN**: RJ-45
	OUT: RJ-45 (pass-through for daisy chain connection to other room devices)

Temperature Sensor

Type	10 kΩ NTC Thermistor
Range	41°F to 104°F (5°C to 40°C)
Accuracy	± 0.9°F (± 0.5°C)
Resolution	0.18°F (0.1°C)

Commands

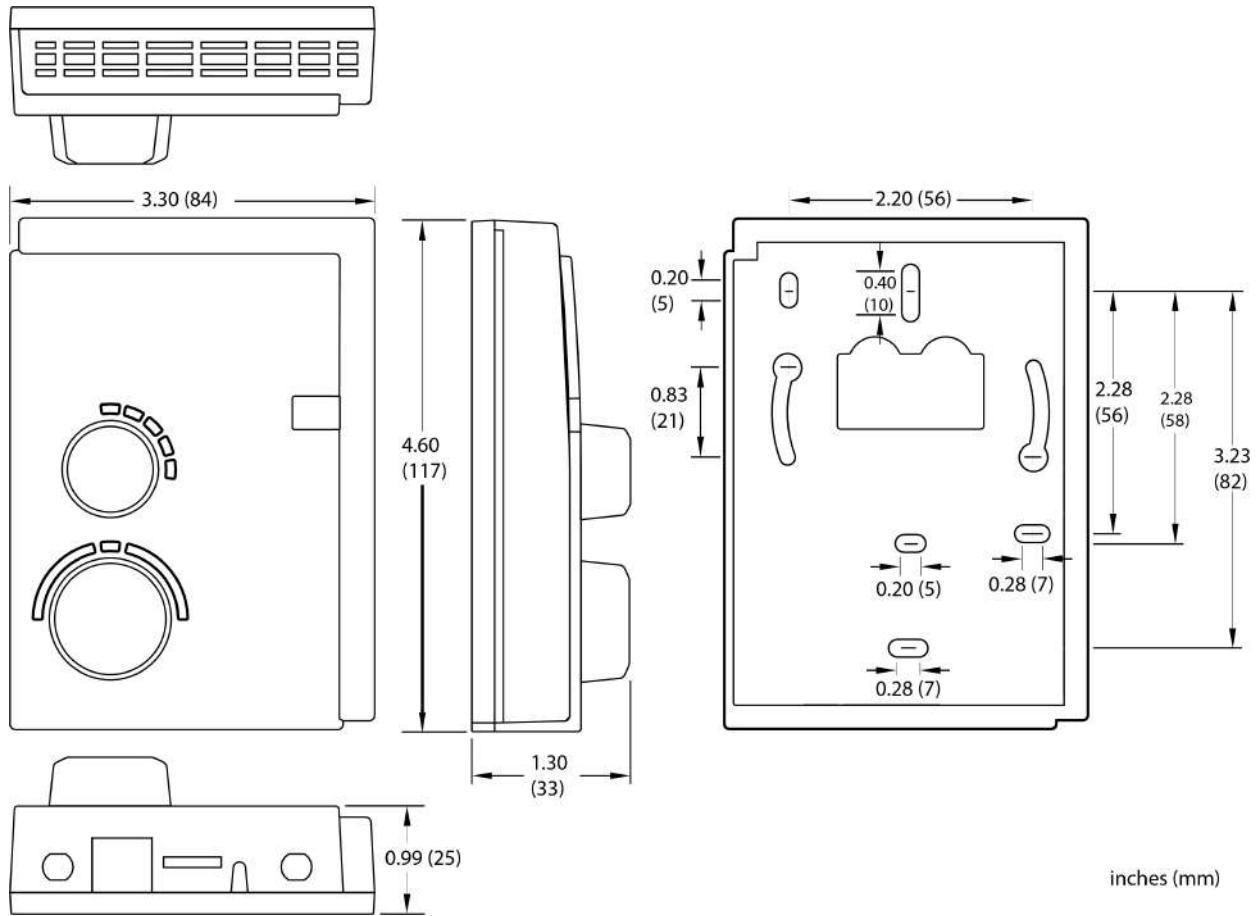|	
Temperature setpoint	Type: Infinite knob Status indicator: 7 configurable LEDs: 3 blue, 1 white, 3 red
Fan speed selection	Type: Infinite knob Status indicator: 5 configurable LEDs: Auto, Off, I, II, III
Occupancy management	Type: Push-button Status indicator: 1 programmable LED

Mechanical

Allure EC-Smart-Comfort Series Dimensions (H × W × D)	4.60 × 3.30 × 1.30" (117 × 84 × 33 mm)
Smart-Light/Blind Series Dimensions (H × W × D)	0.90 × 3.30 × 0.98" (23 × 84 × 25 mm)
Shipping Weight	Models with digital inputs: 0.428lbs (0.194 kg) Models without digital inputs: 0.331lbs (0.150 kg)
Enclosure Material	ABS
Enclosure Rating	Plastic housing, UL94-V0 flammability rating
Color	white
Installation	wall mounting through mounting holes (see figure on next page for hole positions) or switch box (North America / European / Asian / Swiss)

Environmental

Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-4°F to 122°F (-20°C to 50°C)
Relative Humidity	0 to 90% Non-condensing
Ingress Protection Rating	IP20
Nema Rating	1

Standards and regulations

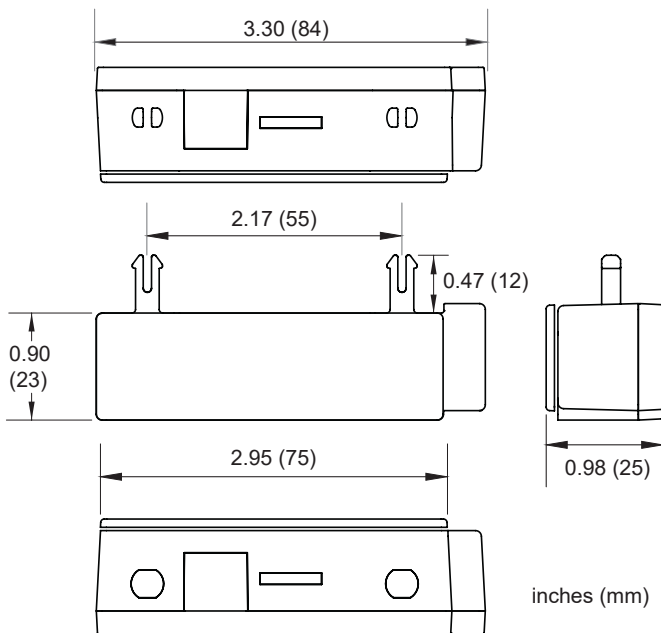|	
CE Emission	EN 61000-6-3: 2007 + A1: ed.2011
CE Immunity	EN 61000-6-1: 2007
FCC	FCC rules part 15, subpart B class B
UL Listed (CDN & US)	UL 916 Energy Management Equipment CSA C22.2 No. 205-12 File number: E228719
RoHS	All materials and manufacturing processes comply with the RoHS directive.
WEEE	All products are marked according to the Waste Electrical and Electronic Equipment (WEEE) directive.

Smart Light/Blind modules

inches (mm)