

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-gfxProgram enables technicians to troubleshoot problems

Model Selection

Example: Allure EC-Smart-Comfort-SF-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

Models without digital inputs:	0.331lbs (0.150 kg)
Enclosure Material	ABS
Enclosure Rating	Plastic housing, UL94-V0 flammability rating

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)

Color	white
Installation	wall mounting through mounting holes (see figure on next page for hole positions) or switch box (North America / European / Asian / Swiss)

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)

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.

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)



