Energio SENSORS

Technical data sheet

ES-TS-201

Rev A · November 2026

Casambi sensors

Mesh network sensors: native Casambi PIR presence and daylight sensors

Made by DANLERS Lighting Controls

CBU sensors join a Casambi network as native nodes, so presence and daylight readings drive any Casambi fixture, group or scene on the project. Set-up runs in the Casambi app alongside the rest of an Energio Controls system. The range uses the same DANLERS 12 V platform and housings as the ISI line.

Features

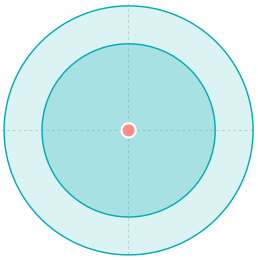
- Casambi-enabled: forms a wireless mesh with other Casambi products
- PIR occupancy detection plus integrated photocell for daylight harvesting
- Time-out and daylight threshold adjusted in the Casambi app
- 0-10V, DALI or switched output for the local load
- Ceiling flush, ceiling surface, high bay and OEM luminaire module formats
- Low-voltage 12 V DC models for the North American market
- Matte white finish, IP20 (surface, high bay)
- 5-year warranty

Casambi
native mesh node

3
output types: 0-10V, DALI, switch

12 V DC
Class 2 supply

Coverage



Secondary zone · 23 ft Ø
Strong zone · 16 ft Ø

Typical ceiling pattern of the DANLERS 12 V platform; confirm CBU data.



CBU ceiling flush



CBU ceiling surface



CBU high bay



CBU OEM module

Specifications

Specification	CBU ceiling (CEFL / CESR)	CBU high bay (HBWD)	CBU OEM module (MOD17M)
Network	Casambi (Bluetooth-based mesh)	Casambi (Bluetooth-based mesh)	Casambi (Bluetooth-based mesh)
Supply	12 V DC Class 2	12 V DC Class 2	12 V DC Class 2
Detection	PIR + photocell	PIR + photocell	PIR + photocell
Coverage (platform)	16 ft strong / 23 ft secondary (Ø)	Up to 91 ft (28 m) Ø	Long-range luminaire optic

Specification	CBU ceiling (CEFL / CESR)	CBU high bay (HBWD)	CBU OEM module (MOD17M)
Mounting height (platform)	7–16 ft	Up to 46 ft	Up to 56 ft
Local output	0-10V, DALI or switched	0-10V, DALI or switched	0-10V or DALI
Configuration	Casambi app	Casambi app	Casambi app
Mounting	Flush: Ø 2.87–2.95 in cut-out · Surface: plate	Solid ceiling or back box	Bezel in luminaire

Ordering information

Model	Format	Output
CBU-CEFL10V12V	Ceiling flush	0-10V
CBU-CEFLDALI12V	Ceiling flush	DALI
CBU-CEFLSW12V	Ceiling flush	Switched
CBU-CESR10V12V	Ceiling surface	0-10V
CBU-CESRDALI12V	Ceiling surface	DALI
CBU-CESRSW12V	Ceiling surface	Switched
CBU-HBWD10V12V	High bay	0-10V
CBU-HBWDDALI12V	High bay	DALI
CBU-HBWDSW12V	High bay	Switched
CBU-MOD17M10V12	OEM luminaire module	0-10V
CBU-MOD17MDALI12V	OEM luminaire module	DALI
Thermal sensor, Casambi version	Ceiling flush, PIR + thermal people counting	Part number from DANLERS

Applications

- Casambi projects designed by Energio Controls
- Open offices and classrooms with daylight zones
- Warehouses and high bay aisles
- Fixtures shipped Casambi-ready (OEM)

Application notes

- CBU sensors work only with Casambi-enabled equipment.
- A Casambi version of the DANLERS thermal people-counting sensor is also available; it requires a Casambi system (see ES-TS-202).
- Coverage, mounting and supply values are from the matching DANLERS 12 V ISI platform documents. Confirm CBU-specific data with DANLERS before submittal.
- Energio Controls designs and commissions Casambi systems throughout North America.

Data from DANLERS America product listings; DANLERS 12 V platform user guides; Casambi ecosystem listings. Energio Sensors products are manufactured by DANLERS and specified, sold and supported in North America by Energio Brands. Specifications are subject to change; confirm against the manufacturer's current data before submittal. Product images courtesy of the manufacturer. All trademarks belong to their respective owners.