ISI smart sensors

App-configured PIR presence and daylight sensors with 0-10V, DALI or switched output

Made by DANLERS Lighting Controls

ISI sensors work on their own, with no gateway or network. Mount one, open the free ISI app on a phone, and set the occupancy style, time-out and daylight threshold over Bluetooth. Firmware updates arrive over the air. One platform covers flush and surface ceilings, high bays and a luminaire module that builds sensing into a fixture, each with a 0-10V, DALI or switched output.

23 ft
ceiling detection Ø

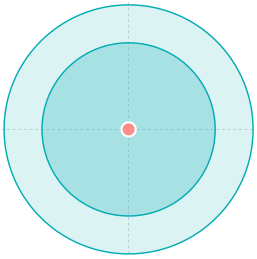
91 ft
high bay detection Ø

12 V DC
Class 2 supply

Features

- PIR occupancy detection with an integrated photocell (5–2,000 lux)
- Set up from the free ISI app (iOS and Android); over-the-air updates
- 0-10V (40 mA, up to 20 drivers), DALI, or switched (12 V DC, 6 A) outputs
- Ceiling flush, ceiling surface, high bay wide detection and luminaire module formats
- Low-voltage 12 V DC, built-in Class 2
- UL 60730-1 / CSA E60730-1 (file E522272)
- Matte white (RAL 9003) flame-retardant polycarbonate
- 5-year warranty from date of manufacture
- MOD17M module builds sensing into a luminaire, in the field or at the factory (private label)

Coverage



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

Ceiling flush/surface models at 7–16 ft.
High bay: up to 91 ft Ø at up to 46 ft.



Ceiling flush (CEFL)



Ceiling surface (CESR)



High bay (HBWD)



Luminaire module (MOD17M)

Specifications

Specification	Ceiling flush (CEFL)	Ceiling surface (CESR)	High bay (HBWD)	Luminaire module (MOD17M)
Supply	11.5–13 V DC	11.5–13 V DC	11.5–13 V DC	11.5–13 V DC (ISI-PSU12VDC)
Current, max / standby	52 mA / 38 mA	52 mA / 38 mA	58 mA / 38 mA	52 mA / 38 mA

Specification	Ceiling flush (CEFL)	Ceiling surface (CESR)	High bay (HBWD)	Luminaire module (MOD17M)
Detection	PIR + photocell	PIR + photocell	PIR + photocell	PIR + photocell
Coverage	16 ft strong / 23 ft secondary (Ø)	16 ft strong / 23 ft secondary (Ø)	Up to 91 ft (28 m) Ø	66 ft strong / 79 ft secondary
Mounting height	7–16 ft (2.4–5 m)	7–16 ft (2.4–5 m)	Up to 46 ft (14 m)	56 ft (17 m) recommended
Photocell range	5–2,000 lux	5–2,000 lux	5–2,000 lux	5–2,000 lux
Radio	2.4 GHz, +4 dBm	2.4 GHz, +4 dBm	2.4 GHz, +4 dBm	2.4 GHz, +4 dBm
Protection	IP40	IP20	IP20	IP20
Dimensions	3.07 × 3.35 × 3.35 in	2.48 × 3.58 × 3.58 in	2.48 × 3.58 × 3.58 in	Control unit 25 × 50 × 38 mm
Mounting	Ø 2.87–2.95 in cut-out; 3.07 in min. void	Surface plate to ceiling or box	Solid ceiling or back box	Bezel in luminaire
Operating temperature	-4 to 104 °F	-4 to 104 °F	-4 to 104 °F	-4 to 104 °F

Ordering information

Model	Format	Output
ISI-CEFL10V12V	Ceiling flush	0-10V
ISI-CEFLDALI12V	Ceiling flush	DALI
ISI-CEFLSW12V	Ceiling flush	Switched
ISI-CESR10V12V	Ceiling surface	0-10V
ISI-CESRDALI12V	Ceiling surface	DALI
ISI-CESRSW12V	Ceiling surface	Switched
ISI-HBWD10V12V	High bay wide detection	0-10V
ISI-HBWDDALI12V	High bay wide detection	DALI
ISI-HBWDSW12V	High bay wide detection	Switched
ISI-MOD17M10V12V	Luminaire module	0-10V
ISI-MOD17MDALI12V	Luminaire module	DALI

Applications

- Stand-alone retrofit, no gateway or network
- Offices, classrooms, corridors
- Warehouses and high bay aisles
- Sensors built into Energio Lighting private-label fixtures

Application notes

- Requires a 12 V DC Class 2 supply. Sensors with the same output can be wired in parallel.
- Target and background must differ by at least 7.2 °F for PIR detection; avoid heat sources, fans and ventilated voids.
- Coverage and current for 10V models shown; DALI and switched variants share the housing. Confirm per-model data with DANLERS.

Data from DANLERS America user guides: ISI-CEFL10V12V, ISI-CESR10V12V, ISI-HBWDSW12V, ISI-MOD17M10V12V. 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.