Energio SENSORS

Technical data sheet

ES-TS-101

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MINI ceiling & fixture sensors

Low-voltage 360° PIR occupancy sensor with built-in daylight sensor

Made by B.E.G. Controls

The MINI packs passive infrared motion detection and a daylight sensor into a one-inch face. It mounts in a ceiling tile or directly in a light fixture, plugs into an Energio Sensors power pack with an RJ-12 cable, and is set up and tested from a smartphone through an IR adapter, so nobody climbs a ladder to flip DIP switches.

Features

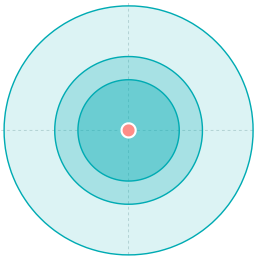
- PIR motion plus daylight sensing in one 25 mm (1 in) sensor face
- 360° coverage: 32 ft (10 m) across for walking, 19 ft (6 m) toward the sensor, 13 ft (4 m) seated
- IP65 rated for wet and high-humidity locations, -13 °F to 122 °F
- Spring clips for ceiling tiles and fixtures; OEM bracket for sensor + power pack in or on a luminaire
- Primary sensors set the zone; secondary sensors wire in parallel to extend coverage
- Clip-on blinds included to mask aisles or doorways
- Settings and test mode by smartphone app with IR adapter (adapter sold separately)
- UL 2043 plenum rated; 5-year limited warranty

32 ft
detection diameter, walking

IP65
wet location rated

1 W
power draw

Coverage



- Walking across · 32 ft Ø
- Walking toward · 19 ft Ø
- Seated · 13 ft Ø

Mounting height 8 ft (2.5 m). Standard optic.



MINI sensor (quarter for scale)



Power pack with primary and secondary MINI

Specifications

Specification	MINI primary / secondary
Power supply	24 V DC from an Energio Sensors (B.E.G.) power pack
Power consumption	1 W

Specification	MINI primary / secondary
Detection technology	Passive infrared (PIR); primary models add a daylight sensor
Detection area	360°
Detection range (8 ft mount)	Ø 32 ft / 10 m across · Ø 19 ft / 6 m toward · Ø 13 ft / 4 m seated
Protection	IP65 / Class IV
Operating temperature	-13 °F to 122 °F (-25 °C to +50 °C)
Housing	UV- and shock-resistant 5VA material, white
Sensor face	Ø 1 in (25 mm); body Ø 1 7/16 in (36 mm)
Connection	RJ-12 to power pack; RJ-12 splitter for added sensors
Set-up	Smartphone app with IR adapter (sold separately)
Plenum rating	UL 2043
Warranty	5-year limited

Ordering information

Model	Item no.	Use with	Description
MINI-P-PP-A-FC-IP20	97180	PP-A-J, PP-1C-J	Primary sensor, switching, standard optic
MINI-P-PP-DIM-FC	97181	PP-DIM-J	Primary sensor, dimming / daylight harvesting, standard optic
MINI-S-PP-FC-IP20	97183	Any MINI zone	Secondary sensor to extend a primary's coverage

Applications

- Private and open offices
- Conference rooms and classrooms
- Corridors and healthcare areas
- Warehouse aisles, gyms, multipurpose rooms
- Light fixtures with integral sensing (OEM)

Application notes

- Each zone needs one primary sensor and one power pack. Add secondary sensors in parallel with an RJ-12 splitter to enlarge the zone.
- High-bay optic versions (GH) are available for mounting heights above standard ceilings: ask Energio for the GH part numbers.
- For vacancy (manual-on) operation, pair with PP-A-J, a low-voltage momentary switch, and set the pack's mode switch to manual.

Data from B.E.G. MINI-Sensor Application Guide (US). Energio Sensors products are manufactured by B.E.G. Controls 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.