

PIR Motion Sensor Module, 5–24VDC Wide Voltage, 4A Output, Adjustable Delay

OVERVIEW

The C-SDC-IR-4A is a passive infrared (PIR) sensor module designed for automatic control of lighting, exhaust fans, and other electrical loads in corridors, bathrooms, basements, garages, warehouses, and similar commercial or industrial spaces. It operates on a continuous trigger mode, activating the output when occupancy is detected and closing after an adjustable delay once the space is vacated.

The module accepts 5–24VDC wide-voltage input and draws a static current of less than 50mA. Output current is rated at 3A maximum. The sensing cone covers a 120-degree angle with a detection range of 5–7 meters. Delay time is field-adjustable from 15 to 360 seconds via an onboard potentiometer. Operating temperature range is -20°C to +50°C. A temperature compensation circuit is included to maintain consistent sensing distance across varying ambient conditions. An optional photosensitive function limits operation to nighttime hours only.

No third-party certifications are confirmed in the available source documentation. No warranty terms are specified in the provided datasheet. Installers should avoid mounting the sensor in direct sunlight, near HVAC equipment, behind glass or dense fabric, or in high-vibration environments. Allow approximately one minute of preheating time after power-up before relying on stable output signals.

SPECIFICATIONS

Input voltage	5–24 VDC	Beam angle	120 °
Operating temp	-20 to +50 °C	Dimensions	50 × 40 × 22.5 mm