

Sensoria

Range of Standalone Sensors



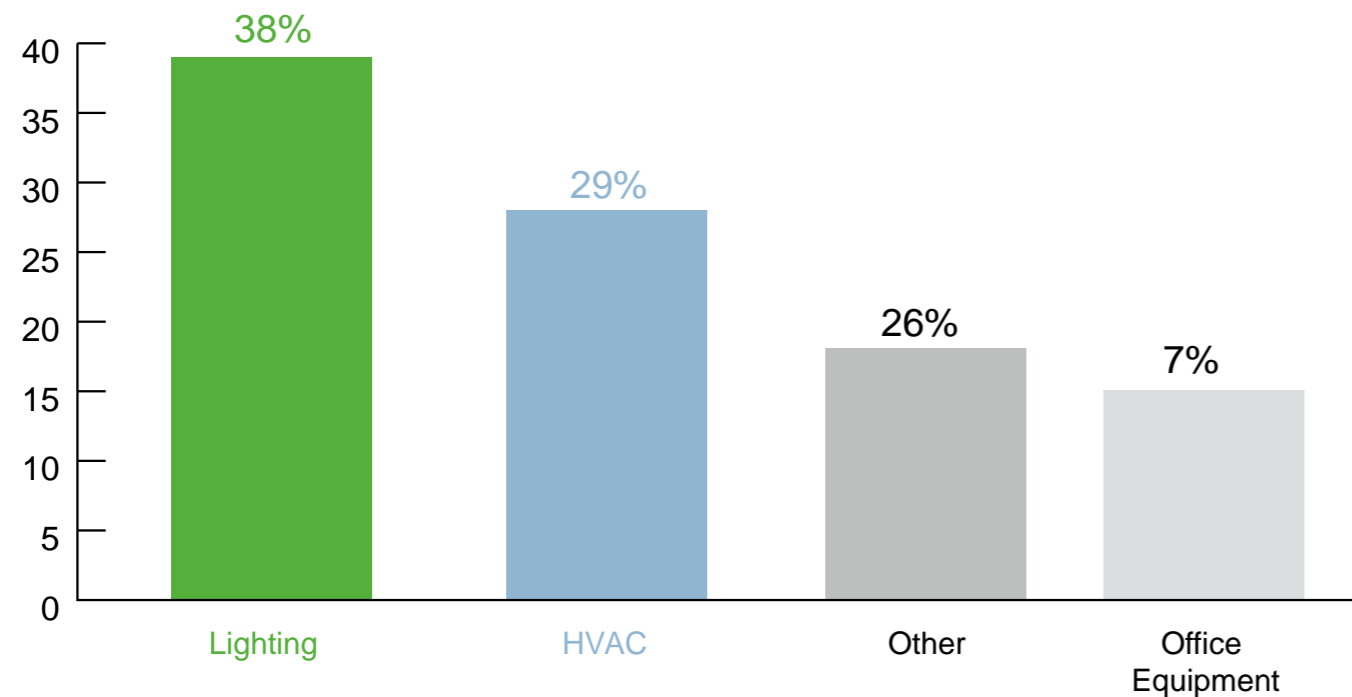
Collection '2017

Range Introduction

Sensoria range of occupancy sensors from crabtree are designed to deliver energy savings and control lighting and other similar loads in a range of commercial and domestic applications. The Sensors gets activated automatically by presence of humans within coverage area & gets deactivated when they leave. This is one of the easy & smart way to save energy in both commercial and residential applications

According to the U.S. Department of Energy, lighting accounts for an average of 38 percent of electricity used in commercial buildings—more than any other building system. Utilizing occupancy sensors is a key strategy for saving lighting energy. In fact, Crabtree's occupancy sensors can typically save 30 percent—and up to 60 percent—of lighting energy in a building.

Annual electricity use in commercial buildings¹



¹ Energy Information Administration, released September 2008. 2003 Commercial Building Energy Consumption Survey (CBECS)

Features

The Sensoria range of Sensor deploys PIR and microwave sensing technology to provide effective presence detection.

All products in the range have a built in photocell, providing accurate light level detection. This allows sensors to harness natural daylight, delivering further energy savings by either holding off, switching lights off or regulating to maintain a constant light level

- Built in daylight sensor which provides light level detection
- Easy to install and program
- Flush and surface mounted variants available
- Ideal for most interior environments
- Switching and digital dimming detectors
- Ideal for retrofit and new build installations

Benefits

Energy Savings

Occupancy sensors are designed to optimize energy savings and enable sustainability. The product offering provides solutions for applications requiring energy code compliance. Using innovative detection technologies that maximize energy savings we save you more!

Convenience

Sensors add convenience by eliminating the need to manually turn lights on or off. And because occupancy sensors automatically turn lights on, a person never has to enter a dark room.

Reliable Performance

Sensors from Crabtree is a leader in lighting control innovation, continuously developing technologies to enhance performance of our occupancy sensors and photocells providing trusted quality and reliability. We offer a broad selection of occupancy and daylight sensors to meet every application.

Ease of Installation

Sensors are easy to install. Electrician with basic knowledge can install the same without any problem

LEED Credit

Sensors help meet the mandatory requirements set for building construction and renovation, as well as contribute to obtaining points in several LEED credit categories

Type of Technology

Crabtree sensors use different types of technology.

Passive Infrared (PIR)

PIR technology works by detecting the difference between heat emitted from human body in motion and the background space in its line of sight view. Passive Infra-Red (PIR) occupancy sensors are best for detecting major motion like an occupant walking through a space.

Benefits

- Long range detection
- Reliable triggering
- Cost Effective



Passive infrared coverage pattern

Microwave

Microwave technology works by sending out microwave pulses and measuring the reflection off a moving object. They cover a larger area than infrared sensors, but they are vulnerable to electrical interference and are more expensive. Such sensor is excellent for minor motion detection

Benefits

- Detect minor motion
- Sees around obstructions



Microwave coverage pattern

Technology	Major Motion (Person walking 3 feet)	Minor Motion (Movements like extending your arm)	Fine Motion (Small Movements like turning book pages)	Very Fine Motion (Minimal movements such as typing)
PIR	✓			
PIR (High Sensitivity)	✓	✓		
Microwave	✓	✓	✓	✓

Sensor Specification



Power Source: 220-240V/AC
Detection Range: 360°
Power Frequency: 50/60Hz
Detection Distance: 6m max(<24°)
Ambient Light: <3-2000LUX (adjustable)
Working Temperature: -20~+40°
Time Delay: Min.10sec±3sec
 Max.15min±2min
Working Humidity: <93%RH
Power Consumption: Approx 0.5W
Rated Load: Max.2000W
 1000W
Installation Height: 2.2-4m
Detection Moving Speed: 0.6-1.5m/s
Mount: Surface & flush Mount
System Code: ACSBA005 (Surface Mount)
System Code: ACSBA004 (Flush Mount)



Power Source: 220-240V/AC
Detection Range: 360°
Power Frequency: 50/60Hz
Detection Distance: 20m max(<24°)
Ambient Light: <3-2000LUX (adjustable)
Working Temperature: -20~+40°
Time Delay: Min.10sec±3sec
 Max.30min±2min
Working Humidity: <93%RH
Power Consumption: Approx 0.5W
Rated Load: Max.2000W
 1000W
Installation Height: 2.2-6m
Mount: Surface Mount
System Code: ACSBA003



Power Source: 220-240V/AC
Detection Range: 360°
Power Frequency: 50/60Hz
Detection Distance: 1-8m (Radius) adj
Ambient Light: <3-2000LUX (adjustable)
 HF System 5.8 GHz CW radar, ISM band
Transmission Power: <0.2mW
Time Delay: Min.10sec±3sec
 Max.12min±1min
Working Humidity: <93%RH
Power Consumption: Approx 0.9W
Rated Load: Max.2000W
 1000W
 2-6 m
Installation Height: 0.6-1.5m/s
Detection Moving Speed: Surface & flush Mount
Mount: ACSBA002 (Surface Mount)
System Code: ACSBA001 (Flush Mount)



Power Source: 220-240V/AC
Detection Range: 360°
Dimming Range: 50%, 75%, 100%
Power Frequency: 50Hz
Detection Distance: 6m max(<24°)
Daylight Sensor: <3-2000LUX (adj)
Working Temperature: -20~+40°
Hold Time: Min.10sec±3sec
 Max.30min±2min
Power Consumption: approx 0.5W
Rated Load: Max. 2000W
 1000W
Installation Height: 2.2-4m
Detection Moving Speed: 0.6-1.5m/s
Automatic Lighting Range: 10Lux-300 Lux
Mount: Surface Mount
System Code: ACSBA006
IR Remote Control: ACSBA008



Power Source: 220-240V/AC
Detection Range: 360°
Dimming Range: 50%, 75%, 100%
Power Frequency: 50Hz
Detection Distance: 6m max(<24°)
Daylight Sensor: <3-2000LUX (adj)
Working Temperature: -20~+40°
Hold Time : Min.10sec±3sec
 Max.30min±2min
Power Consumption: Approx 0.5W
Rated Load: Max.2000W
 1000W
Installation Height: 2.2-4m
Detection Moving Speed: 0.6-1.5m/s
Automatic Lighting Range: 10Lux-300 Lux
Stand by Period: 5min, 10min, 15min, 30min (Choice)
Standby Dimming Level: OFF, 10%, 20%, 30% (Choice)
Mount: Surface Mount
System Code: ACSBA007
IR Remote Control: ACSBA009

Application examples

Commercial

- Lobby
- Open Office
- Private Office
- Break Room
- Stairwell
- Corridors
- Warehouse
- Utility Room

Residential









- Hallway
- Bathroom
- Laundry Room
- Kitchen
- Garage



Product Overview

Microwave Technology Sensing

PIR Sensing

Product Specification										
Product Description		Microwave Sensor	Microwave Sensor	Infrared Presence Sensor	PIR Motion Sensor	PIR Motion Sensor	PIR Motion Sensor without Dimming	PIR Motion Sensor with Dimming	IR Remote Control for ACSBA006	IR Remote Control for ACSBA007
Model Number		ACSBA001	ACSBA002	ACSBA003	ACSBA004	ACSBA005	ACSBA006	ACSBA007	ACSBA008	ACSBA009
Mount		Flush	Surface	Surface	Flush	Surface	Surface	Surface	-	-
Sensing Technology	PIR								-	-
	Microwave								-	-
Angle of Detection		360 °	360 °	360 °	360 °	360 °	360 °	360 °	-	-
Detection Range		8m	8m	20m	6m	6m	6m	6m	-	-
Time Delay		10 sec-12Min	10 sec-12Min	sec-30 Min	sec-15 Min	sec-15 Min	10 sec-15 Min	10 sec-15 Min	-	-
Load1	Incandescent Lamp	Max 2000W	Max 2000W	Max 2000W	Max 2000W	Max 2000W	Max 2000W	Max 2000W	-	-
	Halogen Lamp	Max 1000W	Max 1000W	Max 1000W	Max 1000W	Max 1000W	Max 1000W	Max 1000W	-	-
Rated Voltage		220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	220-240V/AC 50/60Hz	3V DC	3V DC
Type of Installation		Flush	Surface	Surface	Flush	Surface	Surface	Surface	-	-
IR Remote Controller (optional)									-	-
Dimming Range								10%,20%, 30%	-	-

REGIONAL & BRANCH OFFICES:

NORTH - REGIONAL OFFICE: Corporate Office: ORG Towers, 2D, Sector-126, Expressway, Noida-201304, Tel: 0120-3331000, Delhi: Tel: 011-47676700, 23888200, Chandigarh: Tel: 0172-4232400-401, Dehradun: Tel: 0135-6670202, Noida / Haryana: Tel: 0120-3331000, Ludhiana: Tel: 0161-4676000 / 24, Jammu: Tel: 0191-2478330, 2479330, Sri Nagar: Tel: 0194-2490431, Jaipur: Tel: 0141-3914645, 3988210, Jodhpur: Tel: 0291-9214201640 / 45, Lucknow: Tel: 0522-6672100, Kanpur: Tel: 0512-6710400, 6710409

EAST - REGIONAL OFFICE: Kolkata: ICC Tower, 5th Floor, 4 India Exchange Place, Kolkata-700001, Tel: 033-40129851/ 52, Bhubaneswar: Tel: 0674-6668101/102/103/104, Guwahati: Tel: 0361-2134521, 2458923, 2460355, Siliguri: Tel: 0353-2525907, Ranchi: 0651-2244861, 2244862, 2244864, 2244868, 2244869, Jamshedpur: Tel: 0657-6542492, 09234369436, Patna: Tel: 0612-2207221, 2207222, 2207223, 2655518

WEST - REGIONAL OFFICE: Mumbai: 1271, Solitaire Corporate Park, Bldg. No. 12, 7th Floor, Andheri - Ghatkopar Link Road, Chakala, Andheri (East), Mumbai- 400093. Ph.: 022 - 67298600-602, Ahmedabad: Tel: 079-40061111, 40060738-740, Indore: Tel: 0731-2572340-41, 4009998 (Airtel), Rajkot: Tel: 0281-2481112, 2921212, Nagpur: Tel: 0712-2240932, 2242692, 2242699, Pune: Tel: 020-64016413 / 14, Raipur: Tel: 0771-4243400 / 01, Surat: Tel: 0261-2350137, 9979890137, Jabalpur: Tel: 0761-4064491

SOUTH - REGIONAL OFFICE: Chennai: Sigapi Achi Building, No. 18 / 3, 6th Floor, Rukmani Lakshmi pathy Road, Egmore, Chennai-600008, Tel: 044-42280600, 605, Bangalore: Tel: 080-49075000, Coimbatore: Tel: 0422-4550200, 2305199, 2306199, Hyderabad: Tel: 040-27533372, 27533355, 27533632, 66320407/0408/6401/6402, Kochi: Tel: 0484-4099000, Vizag: Tel: 0891-6514339, Vijayawada: Tel: +91-9247058847/57, Calicut: 0495-4019194, Madurai: 0452-4267022, Trivandrum: 0471-4015323, Hubli: 0836-4248600, Trichy: 09944460160

Representative Offices: • Goa • Solapur • Gwalior • Kathmandu • Bhopal

Havells India Ltd.

ORG Towers, 2D, Sector -126, Expressway, Noida - 201 304 (UP),

Ph. +91-120-3331000, E-mail: marketing@havells.com, www.crabtreeindia.com

Consumer Care No.: 1800 11 0303, 1800 103 1313 (All Connections), 011-4166 0303 (Landline)

Join us on Facebook at www.facebook.com/havells and share your ways to save the planet!

CIN - L31900DL1983PLC016304.

