

Hands Free Switching With 'TEKNIK'
Sensing Innovation beyond Imaginations



Microwave Sensor

Infrared Motion Sensor

Sensor Alarm

Sensor Dimmer & Driver

Sensor Smart Light

Switch to 
A UNIT of GSSG Tech Solutions LLP



APPLICATION

CONFERENCE ROOM
 MEETING HALL
 BASEMENT
 CORRIDORS
 OFFICE
 PARKING AREA
 HOSPITALS
 MULTI-APARTMENT COMPLEXES
 STAIRWAYS
 COLLEGES
 SCHOOLS
 INSTITUTE
 SHOPPING MALL
 DRAWING ROOM

MICROWAVE SENSOR

TK-MWS100C

HF MICROWAVE SENSOR



Detection Range	: 360°
Power Source	: 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max. 1200W
Detection Distance	: 1-8m (Radius), Adjustable
Time Delay	: 10see±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

TK-MWS101C

HF MICROWAVE SENSOR - WALL MOUNT

Detection Range	: 360°
Power Source	: 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max. 1200W
Detection Distance	: 1-8m (Radius), Adjustable
Time Delay	: 10see±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

Slim Design easy to fit in any light fixture / POP



TK-MWS102C

HF MICROWAVE SENSOR - WALL MOUNT

Detection Range	: 360°
Power Source	: 110-130V/AC 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max. 800W (110-130V/AC), 1200W (220-240V/AC)
Detection Distance	: 1-8m (Radius), Adjustable
Time Delay	: 10see±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

Installation Height 1.5 - 3.5 mtr.

TK-MWS103C

HF MICROWAVE SENSOR - CEILING MOUNT

Detection Range	: 360°
Power Source	: 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max. 1200W(220-240V/AC)
Detection Distance	: 1-8m (Radius), Adjustable
Time Delay	: 10sec±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

Installation Height 2 – 6 mtr. SLIM & SLEEK Beautiful in looks and asthetics.



TK-MWS104W

HF MICROWAVE SENSOR - WALL MOUNT

Detection Range	: 180°
Power Source	: 110-130V/AC, 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max. 800W (110-130V/AC), 1200W(220-240V/AC)
Detection Distance	: 5-15m (Radius), Adjustable
Time Delay	: 10sec±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

IP 44



TK-MWS105C

360° FLUSH MOUNT CEILING MOUNT OCCUPANCY DETECTOR

Detection Range	: 360°
Power Source	: 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max.1200W(220-240V/AC)
Detection Distance	: 1-8m (Radius), Adjustable
Time Delay	: 10sec±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



Ceiling Mount in POP
Offices, Conference Room, Malls etc

TK-MWS106W

HF MICROWAVE SENSOR - WALL MOUNT

Detection Range	: 180°
Power Source	: 220-240V/AC
HF System	: 5.8Ghz CW radar, ISM Band
Rated Load	: Max.1200W
Detection Distance	: 5-15m (Radius), Adjustable
Time Delay	: 10sec±3sec to 12min±1min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



APPLICATION

INDOOR

MEETING ROOM/HALL
OFFICE CABINS
STAIRCASE
TOILETS / LOBBY
CORRIDOR & PANTRY
COVERED PARKING AREA
STAIRWAYS
ENTRANCE & CORRIDORS
WALK THROUGH PASSAGES
GARAGES

OUTDOOR

MAIN ENTRANCE
TERRACE
PARKING LOTS & BALCONY
GARDEN AREA

CAN BE USED TO CONNECT
ANY ELECTRIC EQUIPMENT,
LIKE NIGHT LAMPS ETC..

Infrared Motion Sensor



TK-IMS107C

CEILING MOUNT HIGH SENSITIVITY OCCUPANCY SENSOR

Detection Range	: 360°
Power Source	: 110-130V/AC, 220-240V/AC
Rated Load	: Max. 1000W (110-130V/AC), 2000W(220-240V/AC)
Detection Distance	: Max20m (Radius), Adjustable
Time Delay	: 10sec±3sec to 30min±2min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)
Installation Height	: 2.2m-6m , Ip54



TK-IMS108C

360° CEILING MOUNT STAND ALONE LIGHT CONTROL PIR SENSOR

Detection Range	: 360°
Power Source	: 110-130V/AC, 220-240V/AC
Rated Load	: Max. 1000W (110-130V/AC), 2000W(220-240V/AC)
Detection Distance	: Max6m (Radius), Adjustable
Time Delay	: 10sec±3sec to 7min±2min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)

Low cost ceiling mount

TK-IMS109W

PASSIVE INFRARED SENSOR

Detection Range	: 180°
Power Source	: 110-130V/AC, 220-240V/AC
Rated Load	: Max. 500W (110-130V/AC), 800W(220-240V/AC)
Detection Distance	: Max 15m, Adjustable
Time Delay	: 10sec±3sec to 15min±3min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



TK-IMS110C

360° CEILING MOUNT STAND ALONE LIGHT CONTROL PIR SENSOR

Detection Range	: 360°
Power Source	: 110-130V/AC, 220-240V/AC
Rated Load	: Max. 800W (110-130V/AC), 1200W(220-240V/AC)
Detection Distance	: Max 12m, Adjustable
Time Delay	: 10sec±3sec to 15min±2min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



With 3X detecto

TK-IMS111W

PIR MOTION SENSOR, WATERPROOF FOR OUTDOOR USE

Detection Range	: 180°
Power Source	: 110-130V/AC, 220-240V/AC
Rated Load	: Max. 800W (110-130V/AC), 1200W(220-240V/AC)
Detection Distance	: Max 15m, Adjustable
Time Delay	: 10sec±3sec to 15min±2min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



TK-IMS112W

PASSIVE INFRARED PLUG

Detection Range	: 120°
Power Source	: 220-240V/AC
Rated Load	: Max.1200W
Detection Distance	: 2-9m, Adjustable
Time Delay	: 10sec±3sec to 7min±2min(Adjustable)
Ambient Light	: <3-2000LUX (Adjustable)



LIGHT – CONTROL SENSOR (PHOTOCELL)

APPLICATION : STREET LIGHTS, GARDEN LIGHTS, SOCIETY LIGHTS, ETC.



TK-PC113

TWILIGHT SENSOR

Power Source : 110-130V/AC 220-240V/AC
Power Frequency : 50/60Hz
Rated Current : 10A
Ambient Light : <5-50LUX (Adjustable)

IP 44



TK-PC114

TWILIGHT SENSOR (PHOTO CELL)

Power Source : 220-240V/AC
Power Frequency : 50/60Hz
Rated Current : 20A
Ambient Light : <2-100LUX (Adjustable)

IP 65

TK-PC115

LIGHT CONTROL SWITCH WITH TIMER

Power Source : 220-240 V/DC
Rated Current : <10uA
Ambient Light : <2~200 lux (Adjustable)
Built-in Timer : 1,2,4,6,8,9 hours
Switching Function : Alarm/Off/Chime



MICROWAVE SENSOR – PANEL LIGHT

APPLICATION : LIVING ROOMS, BALCONY, STAIRCASE, CORRIDORS, LIFTS, ETC.

TK-PL116 FLOOD LIGHT

MICROWAVE LED SENSOR FLOOD LIGHT

Detection Range : 180°
Power Source : 220-240 V/AC
Rated Load : 1200 W
Daylight Sensor : 5lux, 15lux, 50lux, 2000lux
Detection Distance : 7.5m/15m (Choice), Adjustable
Hold Time : 5s, 90s, 3min, 20min (Choice)
Detection Range : 50%, 100% (Choice)
Installing Height : 1.5-3mtr.



SENSOR SWITCH

APPLICATION : CABINETS, LOCKERS, SAFE, WARDROBES ETC..

TK-WIRS117

WAVING IR SENSOR SWITCH

Dimension	: 30.8*8.7*38mm
Input Voltage	: DC12V / DC24V
Input Current	: 3A
Input Power	: 36W at DC12V input 72W at DC 24V
Cable Length	: Input Cable 100mm, Output Cable 200mm
Sensor Type	: Waving IR Sensor
Sensor Distance	: Within 15cm



TK-IRS118

IR SENSOR SWITCH

Dimension	: 30.8*8.7*38mm
Input Voltage	: DC12V / DC24V
Input Current	: 3A
Input Power	: 36W at DC12V input 72W at DC 24V
Cable Length	: Input Cable 100mm, Output Cable 200mm
Sensor Type	: IR Sensor
Sensor Distance	: Within 25cm



TK-IRS119

IR SENSOR SWITCH

Input Voltage	: DC12V / DC24V
Input Current	: 1A/2A
Input Power	: 20W/60W
Cable Length	: Input Cable 150mm / 1000mm
Sensor Type	: IR Sensor



TK-IRS120

TOUCH SWITCH WITH DIMMER

Input Voltage	: DC12V / DC24V
Input Current	: 1A/2A
Input Power	: 20W/60W
Cable Length	: Input Cable 150mm / 1000mm
Sensor Type	: IR Sensor



SENSOR ALARM

APPLICATION : SHOW ROOMS, OFFICE, RESIDENCE, DOCTORS CLINIC, ETC.

TK-SA121

PIR SENSOR ALARM

Detection Range	: 60°
Power Source	: 9V DC
Detection Distance	: 8m (max)
Static Consumption	: <40uA
Working Consumption	: <100mA
Alarm Sound	: > 70DB
Switch Function	: Alarm/Off/Chime



MICROWAVE SENSOR WITH BUILT IN DIMMER & DRIVERS

APPLICATION : LAMPS, ELECTRICAL FIXTURES, STREET LIGHT ETC..

TK-MSD122C

MICROWAVE SENSOR WITH DIMMER & DRIVER

Power Source	: 220-240VC/AC
Wattage Capacity	: Up to 12/16 watts
Output voltage	: 21 - 33 V/DC
Output Detection Range	: 10%, 50%, 75%, 100%
Daylight Sensor	: 5lux, 15lux, 50lux, 2000lux
Output Current	: 300mA , Detection angle - 180° / 360°
Detection Distance	: 2-8m (radius), Adjustable
Installing Height	: 2-4 mtr ceiling standard dimming level - 20%
Stand by Period	: 0s, 30s, 10min, infinite



TK-MSD123W

MICROWAVE SENSOR WITH DIMMER & DRIVER

Power Source	: 220-240VC/AC
Wattage Capacity	: Up to 18 watts
Output voltage	: 35 - 60 V/DC
Output Detection Range	: 10%, 50%, 75%, 100%
Daylight Sensor	: 5lux, 15lux, 50lux, 2000lux
Output Current	: 300mA , Detection angle - 180° / 360°
Detection Distance	: 2-8m (radius), Adjustable, standard dimming level - 20%
Stand by Period	: 0s, 30s, 10min, infinite



TK-MSD124C

MICROWAVE SENSOR & DRIVER

Power Source	: 220-240VC/AC
Wattage Capacity	: Up to 15/18 watts
Output voltage	: 30 - 51 / 24 - 33 V/DC
Daylight Sensor	: 5lux, 15lux, 50lux, 2000lux
Output Current	: 300mA / 600mA
Detection angle	: 180° / 360°
Detection Distance	: 2-8m (radius), Adjustable



MICROWAVE SENSOR – SMART LIGHT

APPLICATION : LIVING ROOMS, BALCONY, STAIRCASE, CORRIDORS, LIFTS ETC..

TKMSL125

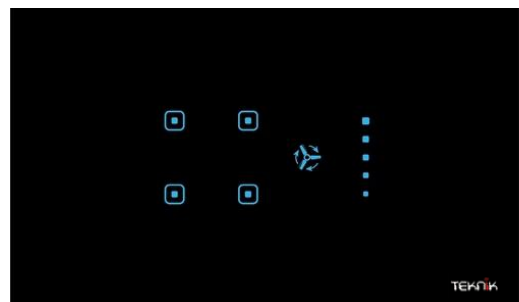
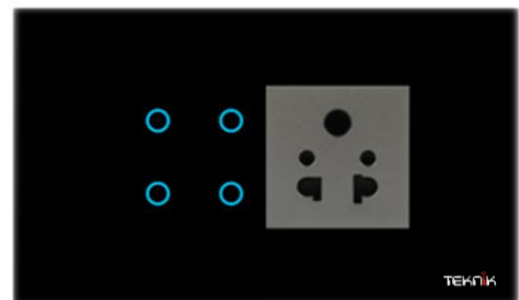
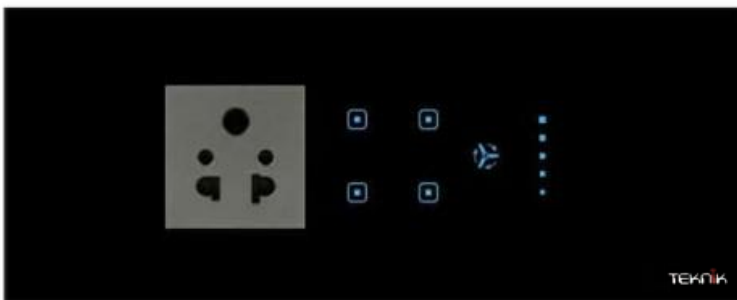
MICROWAVE LED SENSOR LAMP WITH DIMMER

Detection Range	: 120°
Power Source	: 220-240VC/AC
Rated Load	: 10 / 16W (800/1200LM)
Daylight Sensor	: 5lux, 15lux, 50lux, 50lux, 2000lux
Detection Distance	: 2-8m, (radius), Adjustable
Hold Time	: 10s, 30s, 3min, 10min
Stand-by Period	: 0s, 30s, 10min, +? (choice)
Detection Range	: 10%, 50%, 75%, 100%
Installing Height	: 2-4m Ip54, Ik10



TOUCH SWITCH PANEL

Operating Voltage	: 220/230 V AC
Technology	: Cap Sense 1 million Touch Capacity
Load	: 6 AMP Load Max current per load
Operating Environment	
Temperature	: 0° to 45° C
Humidity	: 5% to 90% RH
Load Type	: CFL, LED Light, Tube Light, Resistive Load, Wired incandescent Lighting.



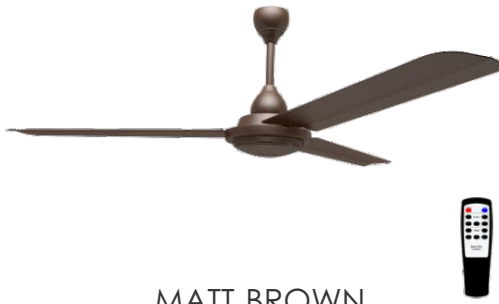
BENEFITS OF TOUCH SWITCH

- LED or PL backlight of switch helps you to find in darkness.
- No need to press heavily, just lightly touch the switch and you will able to turn on/off electric device.
- It looks superior and give a new majestic look to your home.
- Thin design and capacitive touch of switch gives more comfort.

IVORY



MATT BROWN



WHITE



FEATURES



Super energy efficient BLDC Motor



Highest service value (Air delivery/Watt⁹)



Runs 3 times longer on inverter



No humming noise



No heating of fan even after long hours of runtime resulting in extra long life



Consistent performance even at low voltage and power fluctuation



Easy speed control using smart remote



Timer feature to auto switch-off the fan



Sleep mode that reduces the speed after set hours and saves energy

RATINGS



ISO 9001:2008 and ISO 14001:2004 certified



BEE 5-Star rated



Compliant with the requirements of IS 374:1979

HIGHLIGHTS



Smart remote



56% Savings



3 Years warranty

PIR MOTION SENSORS

PRINCIPLE

All Human body has stable temperature, generally 37°C. Therefore they can send out infrared rays with specific wavelength about 10 micrometers.

The IR Sensors are tuned to detect these IR wave length which only emanates when a human being arrives in their proximity. i.e. it senses the motion of human body by the change in surrounding ambient temperature.

The term "PYROELECTRICITY" means heat that generates electricity (here, an electric signal of small amplitude). Since these sensor do not have an infrared source of their own, they are also termed as "Passive".



MICROWAVE MOTION SENSORS

PRINCIPLE

Microwave is still the most advanced method used to detect motion objects. The high - tech sensor works on the principle of the "Doppler effect". If a movement in the detection zone changes the echo pattern, the sensor responds and switches light on.

Microwave is composed of frequency & amplitude. Once radio wave in the travel process encounters an object, it will be reflected, & frequency & amplitude of its reflected wave will change in accordance with the moving state of object is immobile, the frequency of reflected wave will not change.

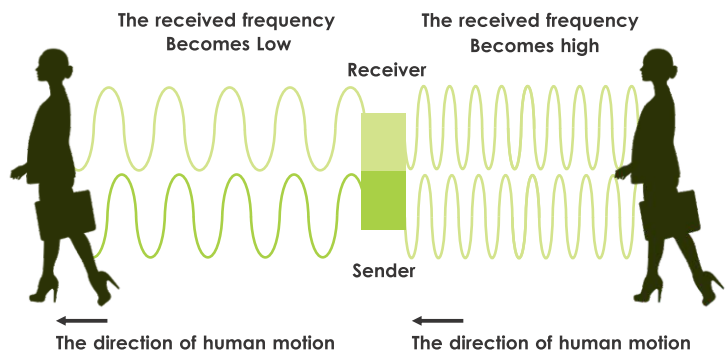
However, if the object moves towards the direction of radio wave, the reflected wave will be compressed, & therefore the frequency of the very wave will increase. Conversely, if the object moves to opposite direction of a radio wave the frequency of the reflected wave will decrease.

Currently, license - free ISM band used for motion detection are as following -

C - Band - 5.8GHz ± 75MHZ

X - Band - 10.525GHz ± 25MHZ

Y - Band - 24.125GHz ± 200MHZ



MICROWAVE MOTION SENSOR

MICROWAVE MOTION SENSOR

Activated by motion & speed.
Always functioning regardless of the background temp. Dustproof & smoke proof.

Motion can be detected through plastic, glass & thin non-metal materials.

Long life span, 50,000 hours.

VS

PASSIVE INFRARED SENSOR

PASSIVE INFRARED MOTION SENSOR

Activated by infrared, heat & light.
Sensitivity is lower when background temperature reaches 37°C vulnerable to dust & smoke.

Cannot pass through plastic, glass cover
Sensor - head must be mounted on the outside of luminaries.

Lens gets again & short service time, 20,000 hours.

ABOUT



GSSG Tech Solutions LLP has been established as an Electronics Product Assembling and R&D company in Hindmotor. Our traditional business model is aimed to develop innovative products in the field of Electronics/Electrical based Home and Industrial appliances and Automation. The in house R&D unit along with skilled Engineers and technician guide the way through towards new ideas and product possibilities. GSSG Tech Solutions has also been involved in expertise professional Industrial training/workshop courses and service oriented jobs for Industries/Educational Institutes on Embedded Systems, Automation, IOT, Robotics, 3D modeling and 3D printing , PCB design and Fabrication and project consultancies.

TEKNIK is a unit of **GSSG Tech Solutions LLP** which deals with Innovations Beyond Imagination. It is a well known and trustworthy brand based in India that has been involved in designing of sensors used in residential, commercial and industrial applications. For the past decade, **TEKNIK** has been involved in **SAVE ELECTRICITY** domain and the success rate has been surprisingly great. The company and its professionals have obtained expertise in designing of sensors available in wide varieties. Whether it be Solar based or Sensor Based Automation, you will be able to get right solutions by approaching our experts.

CONTACT

HINDMOTOR

Office :

139/2 B.B.D Road (Near Hindmotor Railway Station)

Hindmotor, Hooghly – 712233

West Bengal, INDIA

BHADRESWAR

Workshop :

Gopal Bag, Chandannagar

Chandannagar, Hooghly – 712136

West Bengal, INDIA

Ph+Whatsapp : +91-9681051484 / 7278676485

email : technik.gssgtechsolutions@gmail.com



SAVE Electricity **E**