

Motion Sensors

Part: TFC-SEN-DIG85W



Digital Motion Detector that combines a special outdoor use weatherproof design. Resistant to water, insects, dust, wind, sunlight and other outdoor disturbances due to its specially designed casing. Advanced optics and digital processing technologies.

Specifications:

- 11m X 11m 90° viewing angle
- Operates at -20°C to +50°C
- Installation height of 2m to 2.7m
- 9-16V DC, 15mA maximum current consumption
- 10V/m rejection from 10MHz to 1GHz
- Size: 175(H)x84(W)x69(D)mm

Part: TFC-SEN-PIR



This advanced Quad Element PIR design uses a Motion Signal Discretion process to distinguish between motion/non-motion signals. Pulse width analysis is also included to ensure fast detection and superior "catch" performance.

Specifications:

- 110 degree angle
- Coverage of up to 20m
- Quad element sensor
- 9-16VDC operating voltage, 12mA current draw
- N.C. contacts.
- Selectable pulse count 1-2-3
- RFI immunity Ave. 30V/m (10-1000 MHz)
- Detectable speed range 0.3 - 1.5m/sec
- Dimensions 100(H)x60(W)x40(D)mm

Motion Sensor (Mass)

Part: TFC-SEN-MD1-1



Programmable Microwave Sensor to detect movement and mass. Dry contact relay provides independent switching. Detection area of nominal area of 4x5m (based on 5-metre mounting height and angle). Sensor can be mounted on various angles for a shorter or longer detection range. Optional remote for easy configuration.

Specifications:

- Technology: microwave and microprocessor
- Transmitter frequency : 24.175 GHz
- Transmitter radiated power : < 20 dBm EIRP
- Transmitter power density : < 5 mW/cm²
- Mounting height : from 3.5 to 7 m
- Tilt angle : 0° to 180° in elevation
- Detection zone (typical) : 4m(W)x5m(D) @ 5-m height
- Detection mode : movement
- Minimum detection speed : 5 cm/s
- Supply voltage : 12V to 24V AC / 12V to 24V DC < 2 W
- Output relay : free of potential change-over contact
- Max contact voltage : 42V AC/ DC
- Max contact current : 1A (resistive)
- Max switching power : 30W (DC) / 60 VA (AC)
- Hold time : 0.5s to 9s (adjustable)
- Temperature range : -30°C à +60°C
- Degree of protection : IP65
- Product conformity : R&TTE 1999/5/EC EMC 89/336/EEC
- Dimensions : 127(D)x102(W)x96(H)mm
- Cable: 10m Length, Diam 3-6.5mm
- Casing: ABS & Polycarbonate
- Bracket: Black Anodized Aluminum

Manual Adjustment:

- orientation of sensing field (mechanically)
- multiple functions (by push buttons).

Remote Control Adjustments:

- Sensitivity.
- Hold time.
- Detection mode.
- Pedestrian and parallel traffic rejection mode.
- Relay configuration.

Beam Sensor

These Infrared sensors provide the ability to monitor when an object has crossed a certain point and can be configured through the various TFC controls to provide a warning light, or to activate a crossing or almost any other function required.

Part: TFC-SEN-F280

Specifications:
 Sensing Range: 10 - 3200 mm
 Adjustment: Potentiometer
 Light source: LED
 Type of light: Infrared light
 Light spot diameter: Approx. 80 mm @ 2500 mm distance
 Laser: Infrared light
 Dimensions: 25(W)x78(H)x63(D)mm
 Supply: 10-30V DC @ <=35mA
 Ripple: <= 5 Vss
 Switching output: PNP: open collector: Q
 Switching mode: Light-/dark-switching via rotary switch
 Max. output current: 100 mA
 Response time: <= 5 ms
 Switching frequency: 100 Hz
 Test input sender off: TE to + Vs
 Connection type: Cable gland



Part: TFC-SEN-F270

Specifications:
 Sensing Range: up to 14-metres
 Adjustment: Potentiometer
 Light source: LED, visible red light with polarizing filter
 Type of light: Infrared light
 Light spot diameter: Approx. 240 mm @ 8-m distance
 Laser: Infrared light
 Dimensions: 25(W)x78(H)x63(D)mm
 Supply: 10-30V DC @ <=35mA
 Ripple: <= 5 Vss
 Switching output: PNP or NPN: open collector: Q
 Switching mode: Light-/dark-switching via rotary switch
 Max. output current: 100 mA
 Response time: <= 5 ms
 Switching frequency: 100 Hz
 Test input sender off: TE to + Vs
 Connection type: Cable gland



Sensor kits come with mounting brackets. Reflector supplied with F270 sensor only.

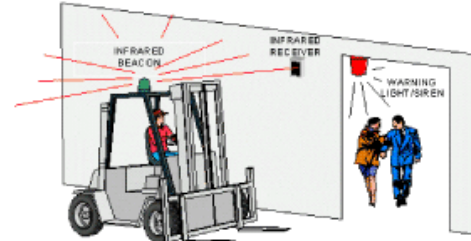
DDS

The DDS (Dedicated Detection Sensor) is a dedicated transmitting & receiving system that operates on "line of sight" detection using infrared.

DDS uses a Transmitter which mounts onto a vehicle and a Receiver is mounted where you would like the monitoring to be conducted.

When the vehicle with a Transmitter comes within range of the Receiver, a number of operations can be activated (via a control box or PLC):

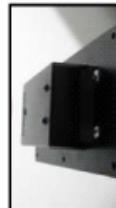
- Activate a warning light, siren or other device to notify that a vehicle is approaching
- Connect to the Cross-SAFE Gate to either magnetically interlock or automatically close the gate (via actuator).
- Activate a Rapid Roller-Door, Boom Gate or other devices that only dedicated vehicles are permitted to enter/exit from.
- Anywhere that warning is required that a vehicle is in operation.



Part: DDS-R

DDS Receiver

Supply: 24V DC @ 450mA
 Rating: IP 65 Enclosure
 Range: 2-10 metres Adjustable



Part: DDS-T1224 Part: DDS-T3648

DDS Transmitter
 Supply: 12-24V DC @400mA
 Supply: 36-48V DC @400mA

