

PIR Sensor Type G 8510 1127



- Passive infrared detector (PIR)
- Detects movement by e.g. a person
- Indoor applications
- Dupline® output
- Operating distance: 0 - 10 m
- Operating angle: 90° (10m)
- Walk test: LED indication on I/O 5
- Switch for NO/NC, transmitting channel output
- Channel coding by GAP 1605
- Supplied by Dupline®

Product Description

Non-powered Dupline® passive infrared detector with built-in transmitter. For detection of movement by e.g. a person. Used for burglar alarm, light control etc.

Ordering Key

G 8510 1127

Dupline® _____
Type _____

Type Selection

| | |
|---------------|--|
| Supply | Ordering no. 1 channel, PIR detector |
| By Dupline® | G 8510 1127 |

Input Specifications

| | |
|-------------------------|---|
| Inputs | |
| I/O number 1 | PIR |
| Lens | Dual detecting zones |
| Segments | 24 |
| Levels | 3 |
| Angle | 90° |
| Operating distance | ≤10 m |
| Wave length | (see radiation diagram) |
| Input detection speed | 7 to 14 μm |
| Default channel status | 0.5 to 5 pulses/s |
| Switch OFF (Position P) | NO |
| Switch ON (Position A) | NC |
| I/O number 2 | Status signal (Always active when a channel is coded to I/O 2) |

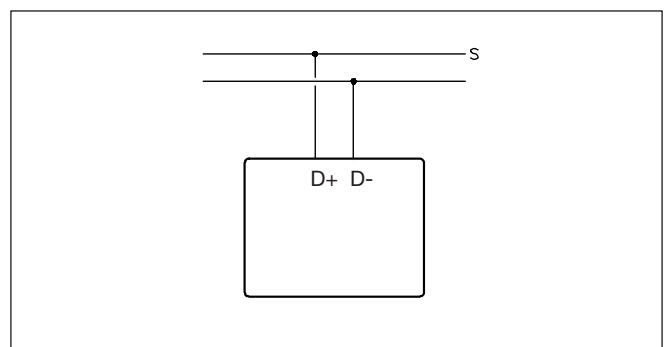
General Specifications

| | |
|-------------------------------|--|
| Power ON delay | Typ. 1 min. It is therefore advisable to keep the unit connected to Dupline® |
| Walk test indication | LED, red |
| Environment | |
| Degree of protection | IP 40 For indoor applications |
| Operating temperature | -10 to +50°C (+14 to +122°F) |
| Storage temperature | -30 to +70°C (-22 to +158°F) |
| Connection | |
| Max. wires in terminals | Screw terminals 4 x 0.75 mm ² |
| Terminal D+ | Signal |
| Terminal D- | Common |
| Material | |
| Housing | Colour Off-white |
| Lens | Polyethylene |
| Dimensions (W x H x D) | 84 x 84 x 48 mm |
| Weight | Approx. 150 g |

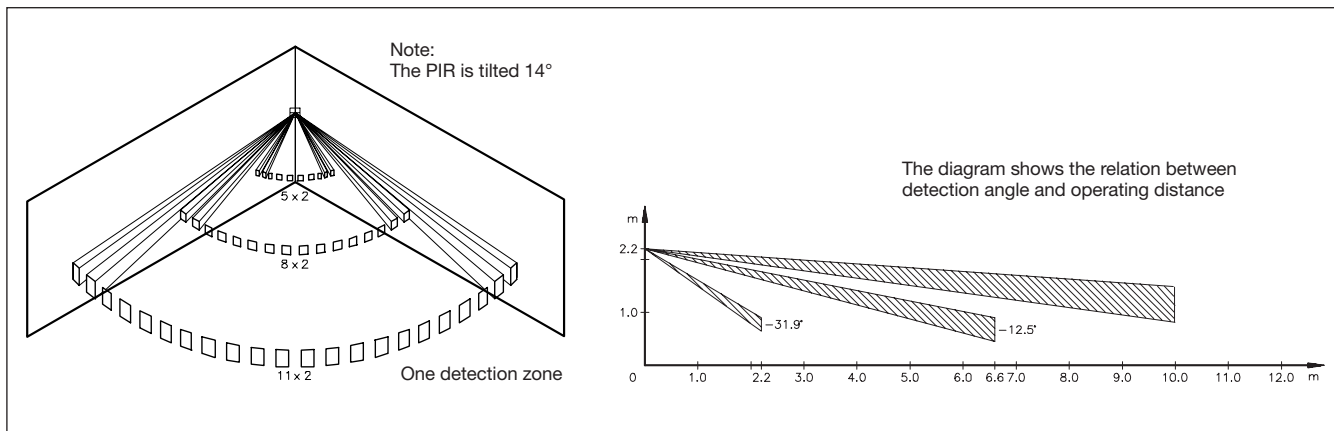
Supply Specifications

| | |
|--------------------------------------|----------------------|
| Power supply | Supplied by Dupline® |
| Rated operational current LED OFF | < 1.5 mA |
| Rated operational current LED ON | < 3 mA |

Wiring Diagram



Radiation Diagrams



Mode of Operation

G 8510 1127 is a 1-channel monostable transmitter with a PIR detector, which operates by means of a dual-element detector.

The transmitter is activated if the temperature suddenly changes (most often it will be heat radiation from a person) in relation to the background radiation. Consequently, the transmitter can be used for ON/OFF switching of lighting, air conditioning, burglar alarm etc. If a person moves within a detection zone, G 8510 1127 is activated.

If I/O 1 and I/O 5 are coded to the same channel, the LED turns ON when the PIR is activated and remains ON for approx. 2 s. Then a non-trigger time period of 2 s will follow before the PIR and LED can be activated again.

If the default channel status switch is in position P, the PIR changes the channel status to ON if it detects a change in temperature. If the default channel status switch is in position A, the PIR changes the channel status to OFF if it detects a change in temperature.

Slow movements between zones resulting in a detection speed of less than 0.5 pulses/sec

will not be detected. Nor will rapid movements resulting in a detection speed of more than 5 pulses/sec be detected. As G 8510 1127 is a passive device, several detectors can be placed in the same room without interfering with each other.

Status signal

If a channel is coded on I/O 2, it will be transmitted as long as the PIR is connected to Dupline.

The module should not be installed in the following places:

- Outdoors.
- In places exposed either to sunlight or to motor vehicle headlights pointing directly at the sensor.
- In places exposed to direct air flow from a heater or air conditioner.
- In places where rapid temperature changes occur.
- In places exposed to severe vibration.
- Close to glass or other objects which might reflect the infrared radiation.

Dimensions

