

# PIR Sensor Type G 8910 2129



- Passive infrared detector (PIR)
- Detects movement by e.g. a person
- 2-channel transmitter
- Indoor applications
- Operating distance: 10 m
- Operating angle: 90°
- Walk test: LED indication
- 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 light control etc.

Not recommendable as a PIR detector in burglar systems.

## Ordering Key

**G 8910 2129**

Type: Dupline®  
Housing  
Transmitter  
2 channel  
1 input  
Input type

## Type Selection

Supply	Ordering no.
By Dupline®	G 8910 2129

## Supply Specifications

Power supply	Supplied by Dupline®
Consumption	
Activated	< 2.6 mA
Activated (LED ON)	< 3.5 mA

## Input/Output Specifications

<b>Inputs</b>	PIR on I/O 1
Lens	Dual detecting zones
Segments	24
Levels	3
Angle	90°
Operating distance	≤ 10 m (see radiation diagram)
Wave length	7 to 14 µm
Input detection speed	0.5 to 5 pulses/s
<b>Outputs</b>	
LED output	Red LED on I/O 2
Tamper signal	on I/O 3

## General Specifications

Channel coding	By GAP 1605 and special cable: GAP-TPH-CAB
No. of channels	2
<b>Enclosure</b>	
Housing	ABS
Colour	White
Lens	Polyethylene
<b>Environment</b>	
Degree of protection	IP 40
Pollution degree	3 (IEC 60664)
Operating temperature	0 - 50 °C (32 - 122°F)
Storage temperature	-20 - 70°C (-4 - 158°F)
Humidity (non condensing)	20 - 80%
Weight	150 g
Dimensions (W x H x D)	104 x 55 x 57 mm
<b>Connection</b>	
Max. wire in terminals	Screw terminals
Terminal D+	4 x 0.75 mm²
Terminal D-	Dupline®signal
	Dupline® -
Power-on delay	Typ. 10
HF immunity	> 15 V/M

## Mode of Operation

G 8910 2129 is a 2-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 etc. If a person moves within a detection zone, G 8910 2129 is activated.

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 8910 2129 is a passive device, several detectors can be placed in the same room without interfering with each other.

Walk test: The LED responds to any channel coded on I/O 2. If the LED is coded to the same channel as the PIR

input on I/O 1, the transmission follows the LED. The LED turns ON when the PIR is activated.

The tamper signal can be coded on I/O 3. It is active when Dupline signal wires and PIR sensor are connected.

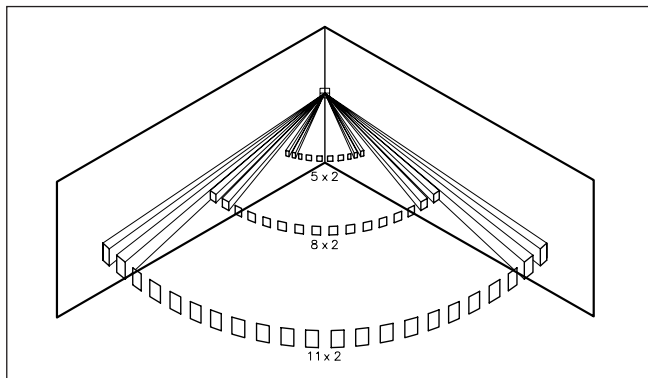
The module should not be installed as follows:

- a) Outdoors.
- b) In places exposed either to sunlight or to motor

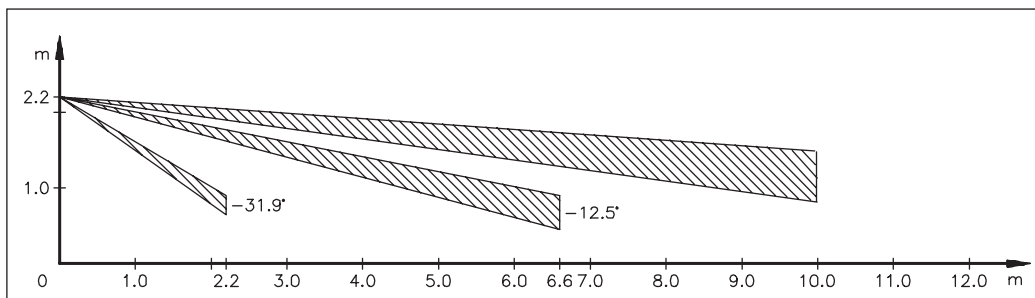
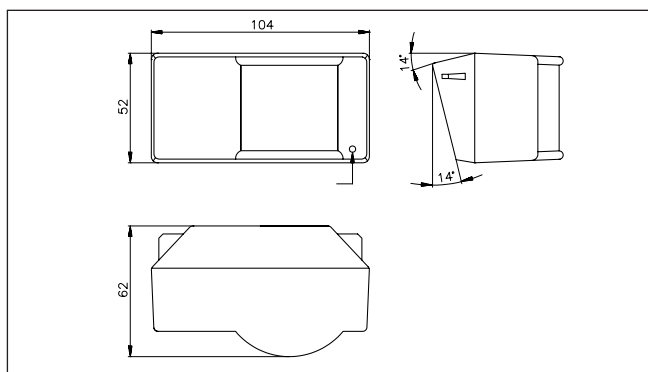
vehicle headlights pointing directly at the sensor.

- c) In places exposed to direct air flow from a heater or air conditioner.
- d) In places where rapid temperature changes occur.
- e) In places exposed to severe vibration.
- f) Close to glass or other objects which might reflect the infrared radiation.

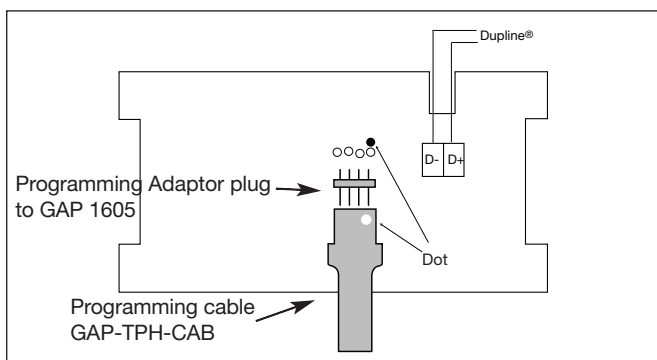
## Radiation Diagram



## Dimensions



## Wiring Diagram



## Accessories

Programming cable to GAP 1605

GAP-TPH-CAB