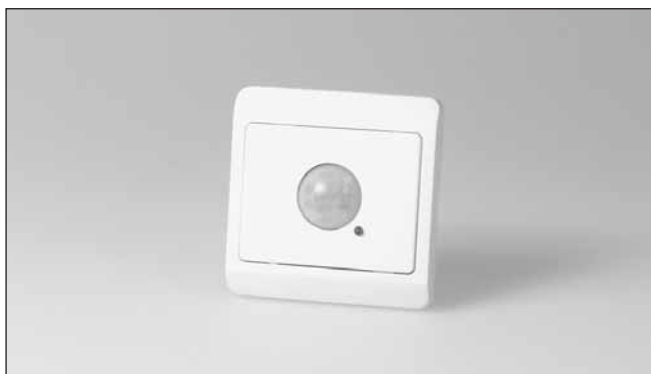


PIR Sensor Type G 8210 1127



- Passive infrared detector (PIR)
- Detects movement by e.g. a person
- Indoor applications
- Operating distance: Max. 6 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 de-

tection of movement by e.g. a person. Used for light control etc.

Ordering Key

G 8210 1127

Type: Dupline®
OPUS-housing
Transmitter
1 channel
1 input
Input type

Type Selection

Supply	Ordering no.
By Dupline®	G 8210 1127

Supply Specifications

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

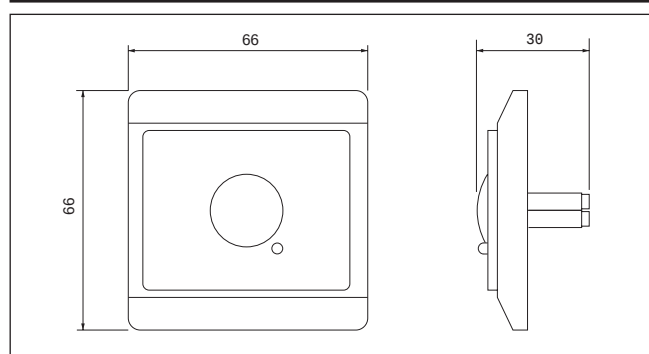
General Specifications

Channel coding	By GAP 1605 and special cable: GAP-TPH-CAB
No. of channels	1
Enclosure	LKNES OPUS Mechanics
Environment	
Degree of protection	IP 20
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	50 g
Dimensions	66 x 66 x 30 mm (including frame)
Connection	
Max. wire in terminals	Screw terminals
Terminal D+	4 x 0.75 mm²
Terminal D-	Signal
	GND
Power-on delay	Typ. 10 s

Input/Output Specifications

Inputs	PIR on I/O 1
Lens	Dual detecting zones
Segments	9
Levels	3
Angle	90°
Operating distance	≤ 6 m (see radiation diagram)
Wave length	7 to 14 µm
Input detection speed	0.5 to 5 pulses/s
Outputs	
LED output	Red LED on I/O 2

Dimensions



Mode of Operation

G 8210 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 etc. If a person moves within a detection zone, G 8210 1127 is activated.

The PIR detector is designed for mounting at a **standard** switch height.

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 8210 1127 is a passive device, several detectors can be placed in the same room without interfering with each other.

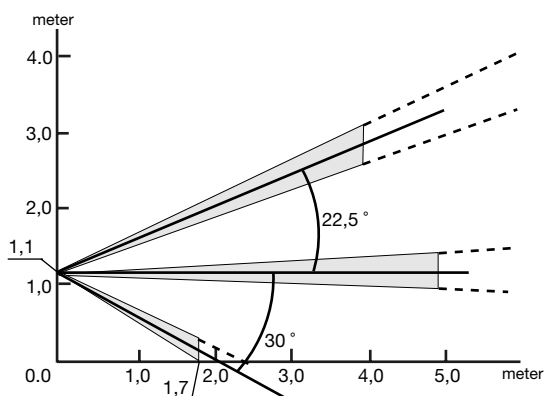
Walk test: The LED responds to any channel coded on I/O 2. If the LED is coded to the same channel as the PIR input on I/O 1, the transmission follows the LED. The LED turns ON when the PIR is activated.

The module should not be installed as follows:

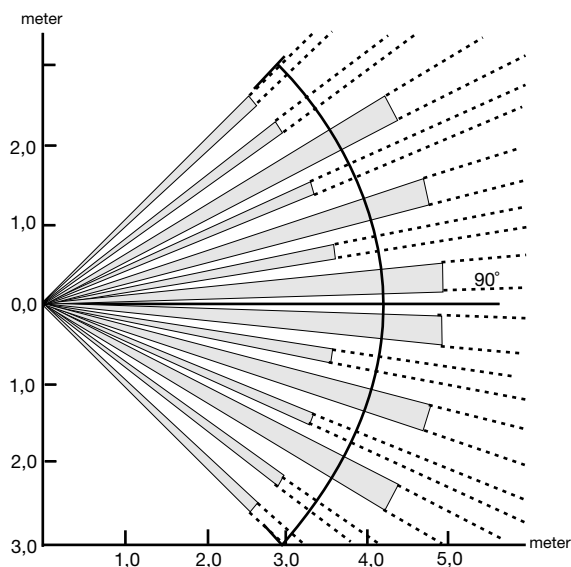
- a) Outdoors.
- b) In places exposed either to sunlight or to motor vehicle headlights pointing directly at the sensor.
- c) In places exposed to direct air flow from a heater or air conditioner.
- d) In places where rapid temperature changes occur.
- e) In places exposed to severe vibration.
- f) Close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

Radiation Diagrams

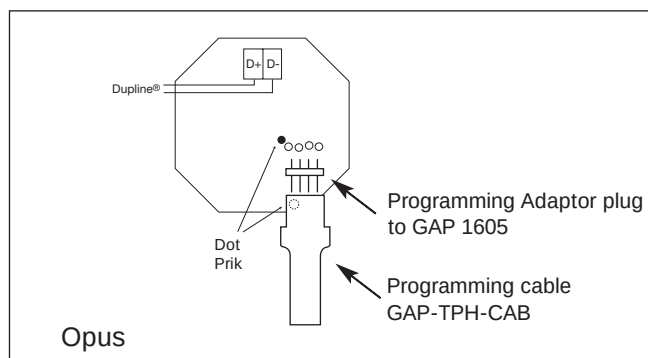
Coverage and placing



Lens characteristic



Wiring Diagram



Accessories

Programming cable to GAP 1605

GAP-TPH-CAB

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Carlo Gavazzi:](#)

[G82101127](#)