

# PIR Sensor Type G 8210 1128



- Passive infrared detector (PIR) for ceiling mounting
- Detects movement by e.g. a person
- Slight motion detection type
- Indoor applications
- Operating diameter: Max. 6 m
- Operating angle: > 90°
- Walk test: LED indication
- Channel coding by GAP 1605
- Supplied by Dupline®

## Product Description

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

## Ordering Key

**G 8210 1128**

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

## Type Selection

Supply	Ordering no.
By Dupline®	G 8210 1128

## Supply Specifications

Power supply	Supplied by Dupline®
<b>Consumption</b>	
Activated	< 1.7 mA
Activated (LED ON)	< 2.3 mA

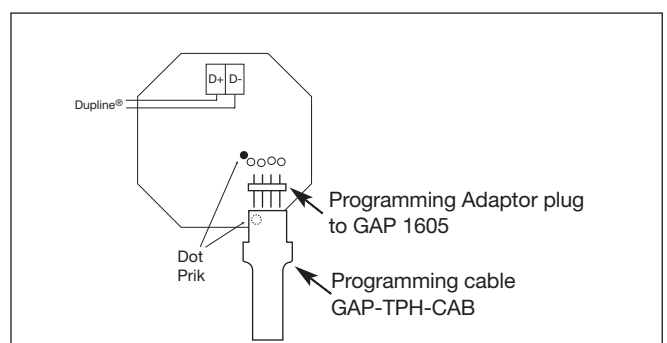
## General Specifications

<b>Channel coding</b>	By GAP 1605 and special cable: GAP-TPH-CAB
<b>No. of channels</b>	1
<b>Enclosure</b>	LKNES OPUS Mechanics
<b>Environment</b>	
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)
<b>Humidity (non condensing)</b>	20 - 80%
<b>Weight</b>	50 g
<b>Dimensions</b>	66 x 66 x 30 mm (including frame)
<b>Connection</b>	
Max. wire in terminals	4 x 0.75 mm <sup>2</sup>
Terminal D+	Signal
Terminal D-	GND
<b>Power-on delay</b>	Typ. 10 s

## Input/Output Specifications

<b>Inputs</b>	PIR on I/O 1
Lens	Dual detecting zones
Segments	26
Detection zones	104
Angle	>90°
Operating distance	≤ 6 m, depending on ceiling height (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

## Wiring Diagram



## Mode of Operation

G 8210 1128 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 1128 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 8210 1128 is a passive device, several detectors can be placed in the same room without interfering with each other.

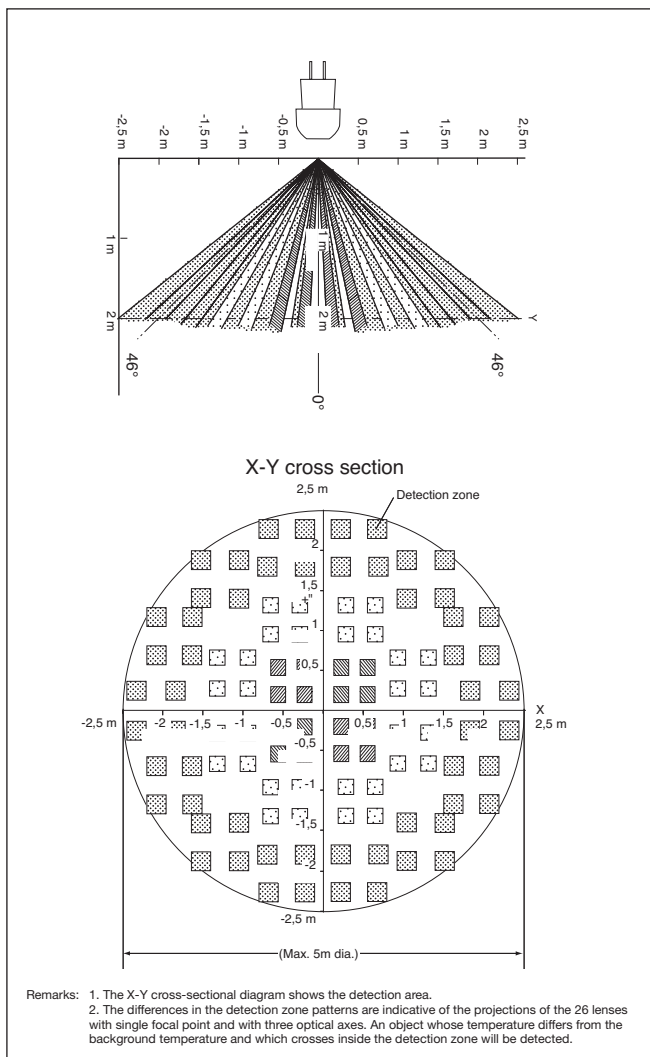
Walk test: The LED responds to any channel coded on I/O 2. If the LED is coded to the same channel as the PIR input on I/O 1, the transmission follows the LED. The

LED turns ON when the PIR is activated.

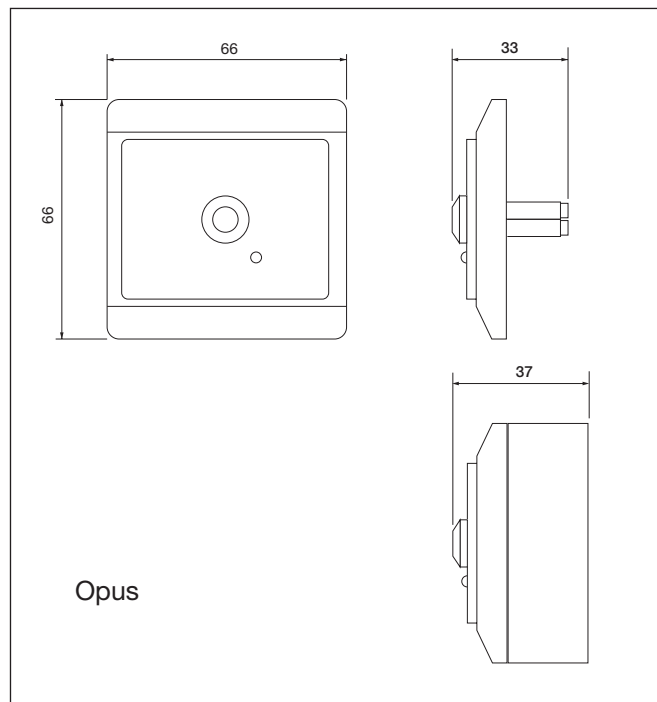
The module should not be installed as follows:

- 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



## Dimensions



## Accessories

Programming cable to GAP 1605	GAP-TPH-CAB
OPUS wall-mounting box	87-012