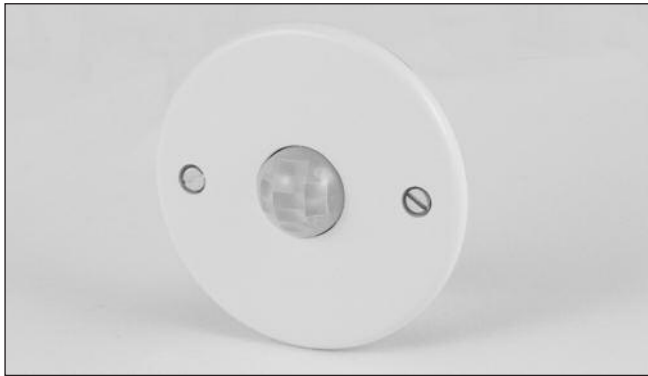


PIR Sensor for Ceiling Type G 8310 1127



- 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®
- Mounting in LK ceilingbox PL52 or PL55

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.

Ordering Key

G 8310 1127

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

Type Selection

Supply	Ordering no.
By Dupline®	G 8310 1127

Supply Specifications

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

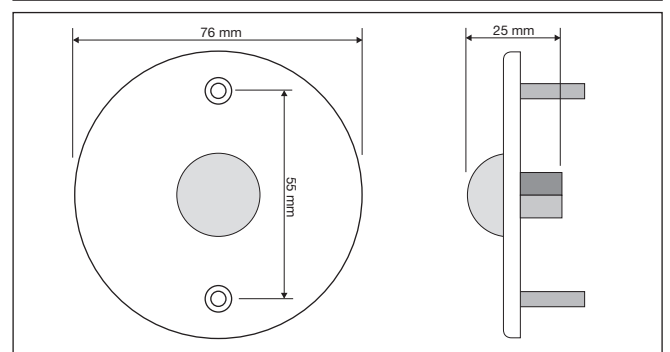
General Specifications

Channel coding	By GAP 1605 and special cable: GAP-TPH-CAB
No. of channels	1
Enclosure	LK PL-box 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	25 g
Dimensions	ø 76 x 25 mm
Connection	
Max. wire in terminals	4 x 0.75 mm ²
Terminal D+	Signal
Terminal D-	GND
Power-on delay	Typ. 10 s

Input/Output Specifications

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

Dimensions



Mode of Operation

G 8310 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 8310 1127 is activated.

The PIR detector is designed for mounting in a PL52 OR PL55 ceiling box..

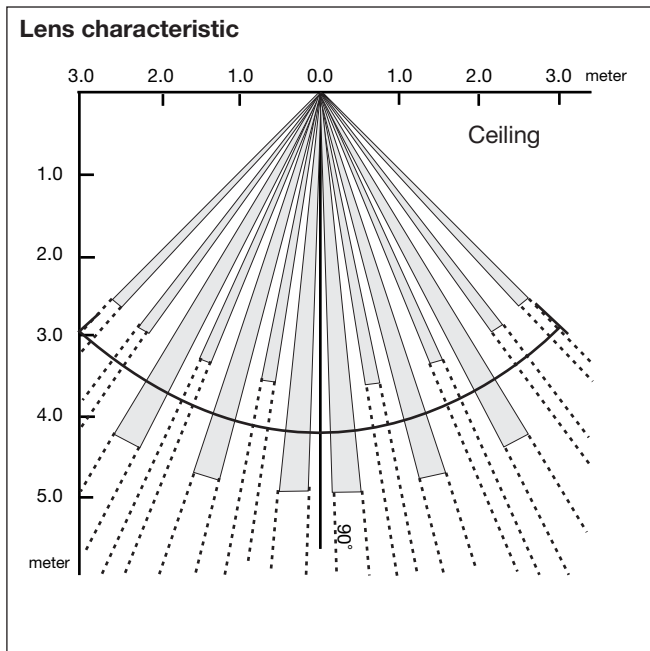
Slow movements between zones resulting in a detection speed of less than 0.5 pulses/sec will not be detected. Nor will rapid movements resulting in a detection speed of more than 5 pulses/sec be detected. As G 8310 1127 is a passive device, several detectors can be placed in the same room without interfering 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.

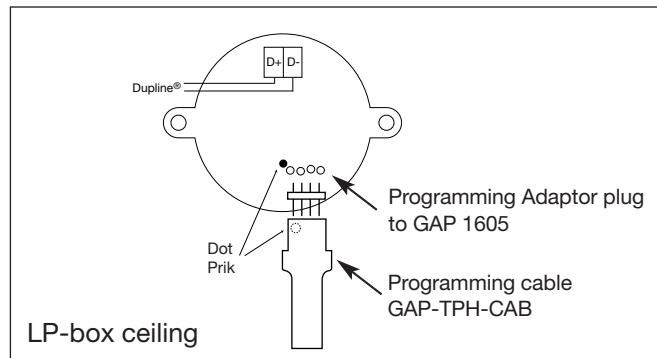
The module should not be installed as follows:

- 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



Wiring Diagram



Note:
For the use of G83101127, we recommend the use of PL52 og PL55 ceiling box.
Ceiling boxes with less depth, can be used but user must be aware of isolation distance (min. 10 mm) between different power circuits.

Accessories

Programming cable to GAP 1605

GAP-TPH-CAB