# **Passive IR detector**

# 5739 36 (White) 067511 HD4610 L4610 NT4610 5739 37 (Magnesium) HC4610 HS4610 N4610 AM5790

## Description

The passive infrared detector is a volumetric detector with fixed lens, sensitive to the movement of warm bodies. The volume of the protected zone is divided into 14 beams distributed on 3 levels. The detector works in two different ways: instantaneous or with impulse calculation, in order to reduce the possibility of false alarms.

It can also be used in the automation system for timed ON/OFF functions, or to activate auxiliary controls.

Related articles: 682 66 (White Cover) 685 66 (Titanium Cover)

## **Technical data**

- Power supply from SCS BUS:	27 Vdc
- Max. absorption:	4.5 mA

- Operating temperature: 5 – 40°C

### **Covering range**



## Legend

- 1 Fresnel lens;
- 2 Alarm warning LED.



#### **Dimensional data**

Size: 2 modules





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#### Configuration

Infrared ray detectors require assignment of the appropriate zones and the progressive number of the sensors in the zone, setting of the detection mode and possibly assignment of an auxiliary channel.

#### Ζ

This configurator assigns the number of the appropriate zone to the detector. Configurator 1 assigns zone 1 to the detector, configurator 2 assigns zone 2 and so on to a maximum of 8 zones.

#### N°

This configurator assigns the progressive number of the detector inside the appropriate zone.

Configurator 1 identifies the first detector, configurator 2 identifies the second and so on to a maximum of 9 sensors (IR detectors and contact interface) for each of the 8 zones.

#### MOD

This configurator sets the sensor detection mode.

It can be used, for EXAMPLE, when the device is directed towards a possible source of disturbance (window or radiator), and its position cannot be changed.

Configurator	Mode
0	1 <sup>st</sup> level of sensitivity (1 high sensitivity impulse)
1	1 <sup>st</sup> level of sensitivity (2 high sensitivity impulses)
2	2 <sup>nd</sup> level of sensitivity (1 medium sensitivity impulse)
3	3 <sup>rd</sup> level of sensitivity (1 low sensitivity impulse)
4	1st level of sensitivity (1 high sensitivity impulse), but with delay.
5	1 <sup>st</sup> level of sensitivity (2 high sensitivity impulses), but with delay.
6	2 <sup>nd</sup> level of sensitivity (1 medium sensitivity impulse), but with delay.
7	3 <sup>rd</sup> level of sensitivity (1 low sensitivity impulse), but with delay.
AUX	auxiliary function activation. The device, in any system status (enabled or disabled), sends an auxiliary alarm to the channel specified in the AUX position. If the assigned zone is divided, the auxiliary command will be disabled.

High sensitivity = maximum coverage 9 metres Medium sensitivity = maximum coverage 6 metres Low sensitivity = maximum coverage 3 metres

#### AUX

If the AUX configurator has been connected to the MOD position, the 1 to 9 value of the configurator in this position activates the auxiliary function assigned to the 1 to 9 number of the auxiliary channel.

If no configurator, or one of the 1 to 7 configurators, is connected to the MOD position, the device only activates the auxiliary function when the system is disarmed.

For further information and advanced functions contact Technical Support Centre.





Rear view



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### Configuration

#### AUTOMATION mode - TIMED CONTROL:

Passive IR detectors can generate and send an ON timed control directly to one or more actuators.

For this mode, configure in the Z and N positions of the detector the addresses A and PL of the actuator to control respectively.

To the MOD position connect the ON configurator to enable the time delay function. The switching ON period is set by connecting numerical configurators 1 to 9 to the AUX position as shown in the following table:

AUX	1	2	3	4	5	6	7	8	9
Time	1 min.	2 min.	3 min.	4 min.	5 min.	15 min.	30 sec.	0.5 sec.	2 sec.



### AUTOMATION mode – GENERIC CONTROL USING AUXILIARY CHANNELS:

In this case, the actuator is managed by a control device, item H/L4651M2, 067553 or AM5831M2, which, based on its own operating mode, set in its own M position, activates the actuator with address set in A and PL.

The communication between the detector and the associated control device is established by defining an auxiliary channel that has been configured in the IR detector by connecting the AUX configurator to the MOD position, and specifying, with numeric configurators 1-9 in the AUX position, the number of the auxiliary channel. Obviously, in order to univocally establish the auxiliary channel, also the AUX position of the control must have the same configurator as the IR detector.



