Fixed IR detector

675 11

Description

The passive infrared detector is of the volumetric type and is sensitive to the presence of warm bodies. The volume of the protected zone is divided into 14 beams over three levels. The detector has two functioning modes: instantaneous or with impulse counting to reduce the possibility of having false alarms. Device sensitivity threshold can be specifically configured.
Height installation, 90 - 120 cm, is recommended.

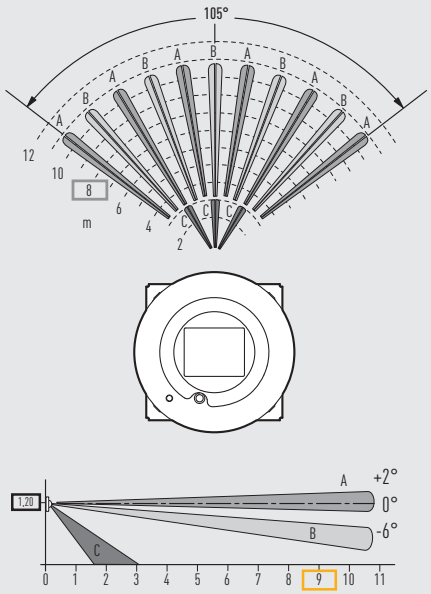
Related articles

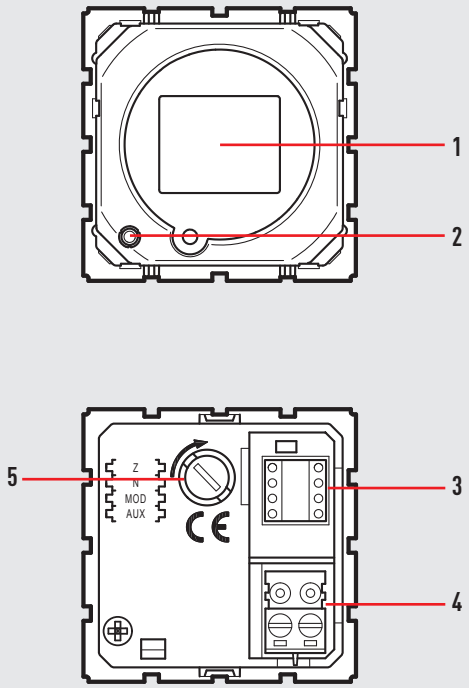
682 66 (White Cover)
685 66 (Titanium Cover)

Technical data

Power supply from SCS BUS:	18 – 27 Vdc
Max. absorption:	4.5 mA
Operating temperature:	5 – 40 °C

Covering area:





Legend

1. Fresnel lens
2. Alarm indication LED
3. Configurator housing
4. BUS connector
5. Housing for anti-tamper device

Dimensional data

Size: 2 flush-mounting modules

Configuration

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

Z

This configurator assigns the number of the appropriate zone to the detector. Configurator 1 assigns zone 1 to the detector, 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 one and so on to a maximum of 9 detectors (IR detectors and contact interfaces) for each of the 8 zones.

MOD

This configurator sets the detector detection mode.
It can be used, for example, when the device faces a potential source of disturbance (window or radiator) and cannot be installed differently.

Configurator	Mode
0	1st sensitivity level (1 pulse, high sensitivity)
1	1st sensitivity level (2 pulses, high sensitivity)
2	2nd sensitivity level (1 pulse, medium sensitivity)
3	3rd sensitivity level (1 pulse, low sensitivity)
4	1st sensitivity level (1 pulse, high sensitivity), delayed
5	1st sensitivity level (2 pulses, high sensitivity), delayed
6	2nd sensitivity level (1 pulse, medium sensitivity), delayed
7	3rd sensitivity level (1 pulse, low sensitivity), delayed
AUX	prealarm function activation. In any system state (enabled or disabled), the device sends an auxiliary alarm through the specified channel in the AUX position. If the appropriate zone is divided, the auxiliary control is disabled.

High sensitivity = max output: 9 metres
Medium sensitivity = max output: 6 metres
Low sensitivity = max output: 3 metres

AUX

If the AUX configurator has been installed in the MOD position, the 1 - 9 value of the configurator in this position activates the prealarm function, assigning the number 1 - 9 of the auxiliary channel.

If no configurators, or one of the 1 - 7 configurators are connected to the MOD position, the device only activates the prealarm function when the system is disabled.

AUTOMATION - TIMED CONTROL mode:

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

Timed ON control

For this mode, it is necessary to configure the A and PL address of the actuator to be controlled in positions Z and N of the detector. It is necessary to insert the ON configurator in the MOD position to enable the timing function. The ON activation period is determined by numeric configurators 1 to 9 placed in the AUX position, as per 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 - GENERIC CONTROL through AUXILIARY CHANNELS mode:

In this case, the control intended for the actuator is managed by a control device 672 42 - 45 which, based on its own operating mode, set in its own M position, activates the actuator with address set in A and PL. Communication between the detector and the associated control device 672 42 - 45 is established through the definition of an auxiliary channel configured in the IR detector by connecting the AUX configurator to the MOD position and specifying the auxiliary channel number with the numerical configurators 1 - 9 in the AUX position. 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.