Double technology IR+MW detector

Description
The double technology detector consists of two detectors: one infrared detector (IR) and one microwave detector (MW). The IR detector detects the presence of warm bodies, the MW detector detects moving bodies. The combination of this double technology ensures a higher degree of immunity from false alarms. The device is in fact programmed to send an alarm only if both technologies become active, whilst at the same time still ensuring a high level of security. The covering range is the same as fixed and adjustable IR detectors. Due to the fact that the detectors do not operate if their covered ranges overlap that of double technology detectors, the installation of several detectors in the same room is not recommended.

NOTE: do not install detectors in places with moving metal parts (e.g. convectors or fan blades).

Technical data
Power supply from SCS BUS: 18 – 27 Vdc
Max. absorption: 5 – 35 mA (see note)
Operating temperature: 5 – 40 °C

NOTE: 35 mA for the first detector installed, 5 mA for the others.

Covering volume

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

Dimensional data
Size: 2 flush-mounting modules
Depth: 20.7 mm
Configuration
Double technology detectors require allocation of the appropriate area, of the progressive detector number within the zone, setting of the detection mode, and the allocation of an auxiliary prealarm channel, if the case.

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

N
This configurator assigns the progressive detector number inside the appropriate zone. Configurator 1 identifies the first detector, configurator 2 identifies the second detector and so on, up to a maximum of 9 detectors (IR detectors and contact interface) for each one of the 8 zones.

MOD
It is not necessary to configure the mode.

AUX
This configurator activates the prealarm function and assigns an auxiliary channel (AUX).

NOTE: When the system is enabled, the detector generates a normal burglar alarm.

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:

<table>
<thead>
<tr>
<th>aux</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>time</td>
<td>1 min</td>
<td>2 min</td>
<td>3 min</td>
<td>4 min</td>
<td>5 min</td>
<td>15 sec</td>
<td>30 sec</td>
<td>0.5 sec</td>
<td>2 sec</td>
</tr>
</tbody>
</table>

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.