

24V THERMOVELOCIMETRIC DETECTOR

AE085/TV ; AE085/TVS

Description

The detector is formed by a temperature sensor, a comparator and the associated electronics that allow to discriminate alarm and fault rest states, according to the parameters set.

It executes a double alarm function on the control of the environment:

Differential: It goes into alarm status when the temperature increase speed exceeds a certain value for a sufficient time. (According to Standard UNE 23007, part 6).

Thermal: It is activated when the ambient temperature exceeds a certain value for a sufficient time. (According to Standard UNE 23007 part 5).

In the AE085 / TV model, once the detector goes into alarm due to the temperature increase, it remains in alarm status, locked by means of a thyristor. To restore it and return to the state of rest it is necessary to remove the power for a few seconds.

The AE085 / TVS model is equipped with automatic rearmament, that is, once activated, it goes to rest on its own when the cause that caused its alarm entry disappears.

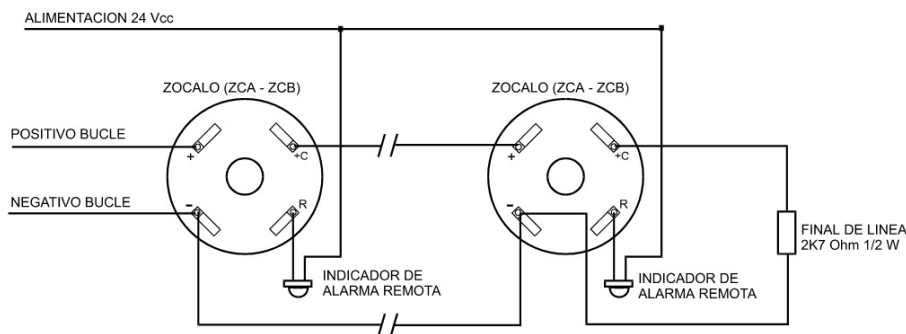
Includes warning light, according to DIN 14675, giving flashes every 8 seconds confirming its correct operating status. It has been designed taking advantage of the latest technical advances both outside and in its "bayonet-type" connection contacts, an increasingly widespread system that allows the replacement of detectors without touching the installation, however, if a detector is removed and not The circuit is replaced by another circuit, indicating the corresponding "open line" alarm in the control panel.

The installation is carried out with two wires connected to the sockets, as indicated in the wiring diagram.

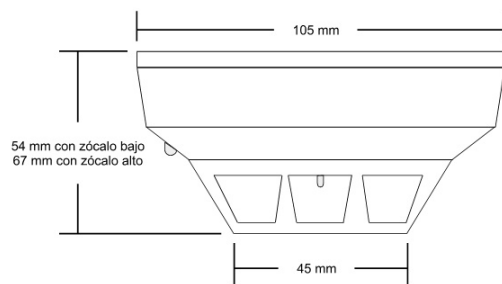
In the design of the detector, the possibility of changing the positive to the negative is planned without altering its operation in the least. It is supplied with a flat socket (ZCA) for pipes that are recessed or with a special socket (ZCA) that allows the passage of a tube inside when the pipes are surface, avoiding the extra boxes. Both sockets allow the exchange of ionic, optical and thermo-speed detectors.



Wiring diagram



Dimensions



When more than two alarm indicators are installed in the same area it is advisable to feed them with a third wire (24v from the source), so that the consumption of these, in the case of entering several detectors in alarm, does not exceed the current levels fixed in the loop.

TECHNICAL CHARACTERISTICS

Supply voltage:	15 to 30 V DC
Consumption at rest:	50 uA.
Alarm consumption:	22 mA.
Remote output current:	250 mA.
Working temperature:	From -20° to 60°C
Humidity:	Up to 92%.
Housing material:	ABS.
Dimensions:	105 x 45 mm.

