

Heat difference detector WM 1005/24 V DC

EN Wiring diagram



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Symbols and means of representation

Important information and technical notes are especially highlighted to explain correct operation.

Symbol	Meaning
	means "Important Information"; Information on avoiding material damage, understanding a concept or optimising workflows.
	means "additional information"
	Symbol for an action: Here you have to do something. ▶ If there are several actions to be taken, keep to the given order.

Safety instructions

It is important to follow these instructions for the safety of persons. These instructions must be kept.

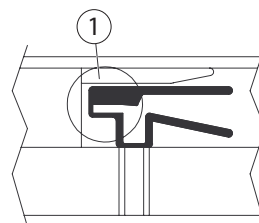
- Only specialists authorised by GEZE are permitted to carry out installation, commissioning and maintenance work.
- Own changes made to the system will mean that GEZE is no longer responsible for any resulting damages.
- GEZE is not liable if products from other manufacturers are used with GEZE equipment. Use only original GEZE parts for repair and maintenance work as well.
- The connection to the mains supply must be carried out by a qualified electrician. Perform the power connection and equipment earth conductor test in accordance with VDE 0100 Part 610.
- Observe the latest versions of guidelines, standards and country-specific regulations.

Brief description

The heat difference detector WM 1005 recognises open fires with and without smoke development. It records the ambient temperature and reacts when the triggering values specified in accordance with EN 54 Part 5 are reached.

Installation

- ▶ Before installing the detector, switch off the power supply to all monitoring circuits.



1 Plastic tab
(removal protection)

- ▶ Fit the detector into the detector base.
- ▶ Exert light pressure to turn the detector clockwise until it slips into the holder.
- ▶ Turn until the notches in the detector correlate with the marking in the base.
- ▶ When all detectors have been installed, switch the power supply to the detector monitoring circuits on.
- ▶ Test detectors.
- ▶ Remove the plastic tab (1) to prevent the detector head being able to be removed without tools.

Test

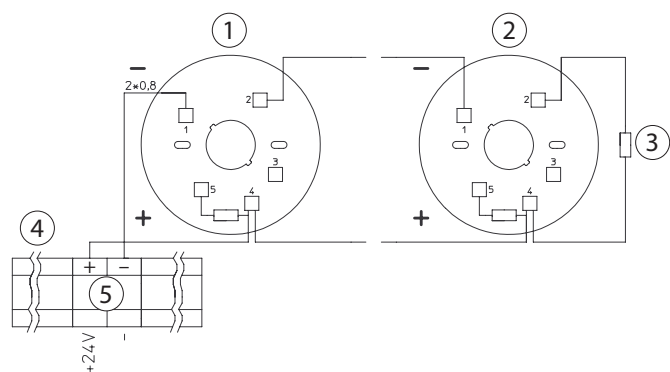
- ! Use a tool from a recognised manufacturer for heating in accordance with the manufacturer's instructions.

- ▶ Heat the detector using the tool.
- The red LED on the detector must change to a locked alarm state within 40 seconds.
- An alarm must be activated on the RWA control unit.

Connection

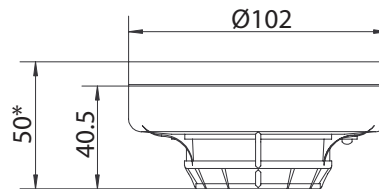
- ! ▶ Remove the dust caps before commissioning the system.
- ▶ Heed wiring plan for the control unit.

- i A maximum of 10 units or 20 units can be installed in series. (Depending on the control unit)



- 1 First heat difference detector
- 2 Last heat difference detector
- 3 Insert the termination resistor in the last detector
- 4 Terminal block GEZE emergency power control unit (see respective wiring diagram)
- 5 Smoke detector connection

Technical data



* with base

- Functional principle semiconductor temperature sensor
- Reaction parameter limit value and speed of increase of ambient temperature
- Monitoring area according to application directives
- Installation height according to application directives
- Reaction threshold DIN EN 54, Part 5
- Maximum part 58°C
- Operating voltage $8\text{ V} \dots 30\text{ V DC}$
- Current consumption
 - idle max. $75\ \mu\text{A}$
 - during alarm max. $20\ \text{mA}$
- Signal transmission 2-conductor technology current increase with self-locking only with GEZE emergency power control unit
- Use red LED
- Single indicator G201016
- VdS approval $-20^{\circ}\text{C} \dots +60^{\circ}\text{C}$
- Operating ambient temperature
- Application temperature max. 45°C
- Dimensions with base $\varnothing 102 \times 50\ \text{mm}$
- Weight with base $125\ \text{g}$
- Colour white, acc. to RAL 9016