

## Visual smoke detector RM 1003/24 V DC

EN Wiring diagram

**GEZE**

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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.

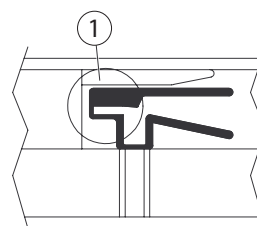
- Only specialists authorised by GEZE are permitted to carry out installation, commissioning and maintenance work.
- Own changes made to the system will mean that GEZE is no longer responsible for any resulting damages.
- GEZE is not liable if products from other manufacturers are used with GEZE equipment. 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 visual smoke detector RM 1003 detects both smouldering and open fires with smoke development at an early stage. It works using the light scatter principle.

## 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 anti-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

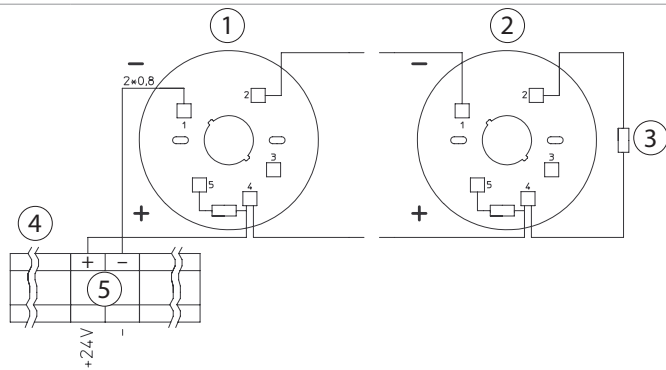
! Use a product from a recognised manufacturer to produce test smoke in accordance with the manufacturer's instructions.

- ▶ Hold the test smoke under the detector.
- 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

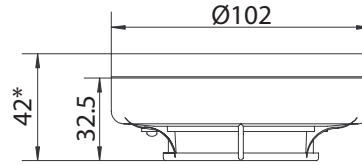
! ▶ Remove the dust caps before commissioning the system.  
▶ Heed wiring plan for the control unit.

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



- 1 First smoke detector
- 2 Last smoke 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           | visual light scatter principle                               |
| ▫ Monitoring area                | according to application directives                          |
| ▫ Installation height            | according to application directives                          |
| ▫ Sensitivity                    | DIN EN 54, Part 7  |
| ▫ Operating voltage              | 8 V ... 30 V DC  |
| ▫ Current consumption at 24 V DC |  |
| ▫ idle                           | max. 65 µA   |
| ▫ during alarm                   | max. 20 mA   |
| ▫ Signal transmission            | 2-conductor technology<br>current increase with self-locking |
| ▫ Alarm reset                    | by key in control unit                                       |
| ▫ Use                            | only with GEZE emergency power control unit                  |
| ▫ Single indicator               | red LED  |
| ▫ VdS approval                   | G201060  |
| ▫ Operating ambient temperature  | -20 °C ... +60 °C  |
| ▫ Dimensions with base           | Ø 102 x 42 mm  |
| ▫ Weight with base               | 120 g  |
| ▫ Colour                         | white, acc. to RAL 9016                                      |