

## SensoMAG R20

### Rate-of-rise Temperature Fire Alarm Detector

## EN54-5

### Description

SensoMAG R20 is a rate-of-rise temperature detector with digital processing algorithm. The detector is designed to detect temperatures above 58°C (class A1R, according EN54-5).

SensoMAG R20 is suitable for installing in any conventional fire alarm system designed with fire alarm panel with fire alarm threshold between 10mA and 15mA.



### Technical and Environmental Specifications

Operating Voltage Range . . . . . 9 - 30 V DC (Nom. 12/24VDC)

Average current consumption in quiescent state . . < 50µA

Alarm state current:

- with base type B24 and B24D . . . . . 20 mA / 12÷30V

- with base type B24RD . . . . . 33 mA / 12V; 49mA/24V; 57mA/30V

- with base type B12L/U . . . . . 18 mA / 9V; 29mA/12V; 32mA/15V

Class (in accordance with EN54-5) . . . . . A1R

Output in alarm state at terminal RI . . . . . 20mA (max)/ -3.3V

(Towards terminals +IN /+OUT)

Degree of protection . . . . . IP30

Wire Gauge for terminals . . . . . 0.4mm<sup>2</sup> ÷ 2.0mm<sup>2</sup>

Operational temperature range . . . . . -10°C ÷ +60°C

Relative humidity resistance . . . . . (93 ± 3)% @ 40°C

Dimensions (incl. base) . . . . . ø102mm, h 42mm

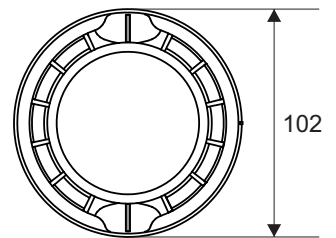
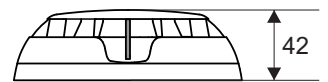
Weight (incl. base) . . . . . 160g



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DoP No: 051

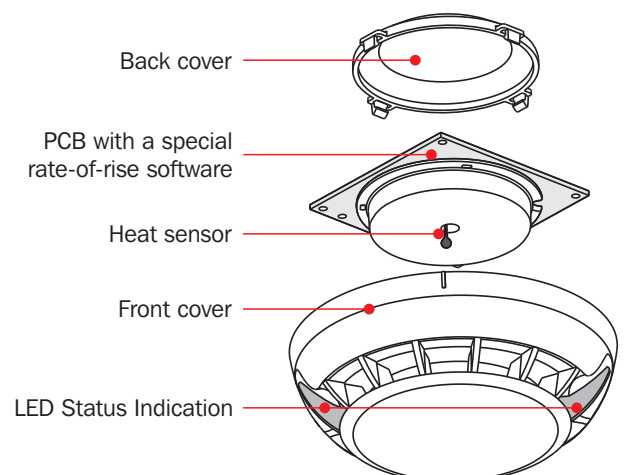
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### Application

SensoMAG R20 is suitable for applications for locations in which different ambient temperatures occur (e.g. mechanical workshops, tool rooms, etc.).

The innovative design makes it particularly suitable anywhere where dust, dirt (e.g. sawmills) or high humidity (e.g. wet cells) could affect the operation of traditional detectors.



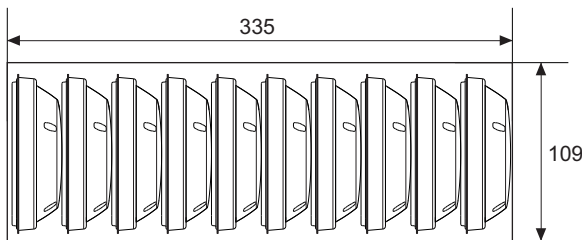
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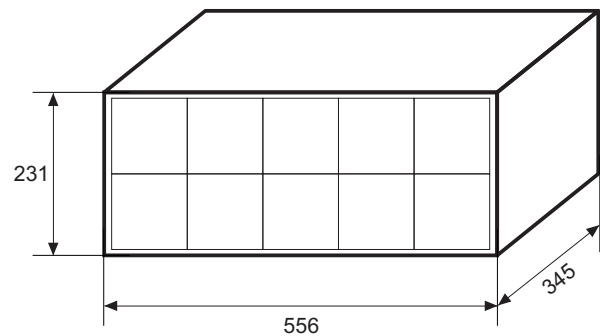
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### Packing Information

• **Master box** - 10 units SensoMAG R20, no bases included, dimensions 335 x 109 x 109 mm.  
All detectors are protected with a plastic cap.



• **Carton box** - 100 units SensoMAG R20 (10 master boxes), no bases included, dimensions 556 x 345 x 231 mm.  
All detectors are protected with a plastic cap.



### Compatible Product Range

- **MAG2, MAG2P** - Conventional Fire Alarm Panel, 2 fixed zones
- **MAG4, MAG4P** - Conventional Fire Alarm Panel, 4 fixed zones
- **MAG8** - Conventional Fire Alarm Panel, 8 fixed zones
- **MAG8plus** - Conventional Fire Alarm Panel, 8 fixed zones, expandable to 16
- **FRL-1** - Remote Fire Indicator
- **SensoMAG B24** - Standard Base
- **SensoMAG B24D** - Standard Base with Schottky diode
- **SensoMAG B24RD** - Standard Base with Schottky diode and increased alarm state current
- **SensoMAG B12L/U** - Base with relay output, 12V
- **Deep Base** - Accessory for mounting on rough surfaces, outdoor pipelines, etc.