SensoMAG

Teletek electronics

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℃ (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 B12 . . . . 18 mA / 9V; 29mA/12V; 32mA/15V
Class (in accordance with EN54-5) A1R
Protected area (in accordance with EN54-5) . . . . up 35m^2
Installation height (in accordnce with EN54-5) . . . up 3,5m
Output in alarm state at terminal RI . . . . 20mA (max)/ -3.3V
(Towards terminals +IN /+OUT)
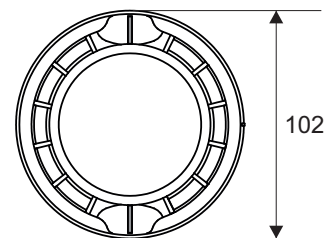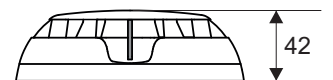Degree of protection IP30
Wire Gauge for terminals . . . . 0.4mm^2 ÷ 2.0mm^2
Operational temperature range . . . . -10℃ ÷ +60℃
Relative humidity resistance . . . . (93 ± 3)% @ 40℃
Dimensions (incl. base) . . . . ø102mm, h 42mm
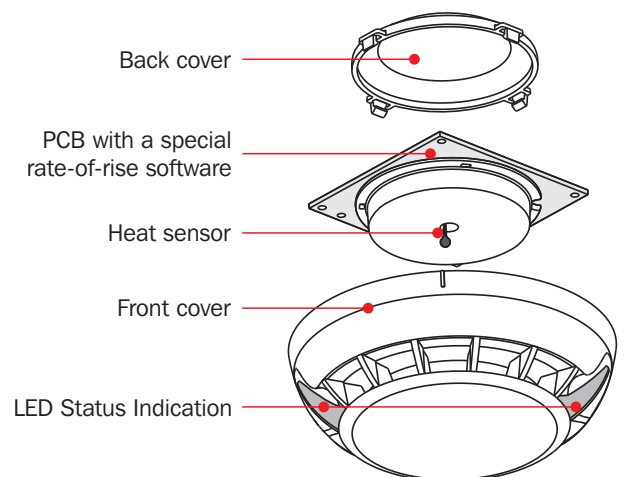Weight (incl. base) 160g

42

102

CE
1293-CPD-0118

• 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.

Back cover

PCB with a special rate-of-rise software

Heat sensor

Front cover

LED Status Indication

• Contact Information:

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SensoMAG

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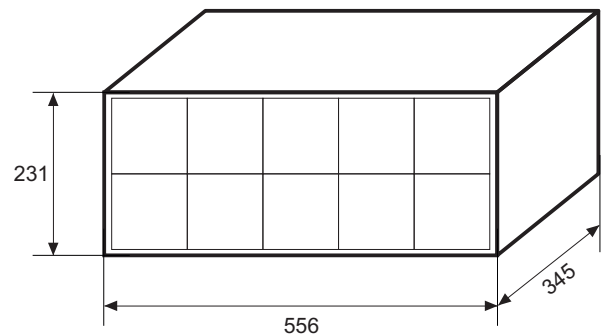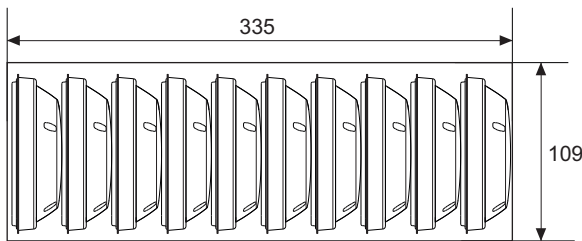### Rate-of-rise Temperature Fire Alarm Detector

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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

• **MAG2M, MAG2P** - Conventional Fire Alarm Panel, 2 fixed zones
• **MAG4M, 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
• **SensoMAG 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.

Contact Information: