



Addressable Rate-of-Rise Heat Detector with Built-in Isolator S2-ARD-300

S2-ARD-300 is the addressable rate-of-rise heat detector, designed based on the measurement of temperature and its rate of growth. It responds to sudden temperature increases as well as temperature rising above a certain level. The detector's performance is regulated according to standards and activates at a temperature growth rate of 8 degrees Celsius per minute. It is suitable for locations where smoke-producing materials are present and environments where fire rapidly escalates.



Features

- Designed according to EN 54-5,54-17 standard.
- Equipped with an internal isolator with the possibility of active or passive isolator.
- Easy address programming with the handheld programmer
- Remote indicator output
- Compatible with the WISE addressable panel and other SENS addressable panels
- SMD technology
- Reliable performance
- Low power consumption
- Impact-resistant plastic frame
- Equipped with a red LED status indicator.
- High reliability with intelligent ambient temperature processing



Technical Specifications

Detector Class	A2R
Power Supply Voltage	27V
Stand by consumption	0.6mA @ 27V
Alarm state current	1.3mA @ 27V
Alarm Temperature	54-70 °C
Operating Temperature	-10 to 70 °C
Humidity	95% (without condensation)
Dimensions	50×100 mm
Weight	100gr

Application

The S2-ARD-300 detector is suitable for environments with sudden temperature variations in fire and high vapor concentrations, exhaust gases, dust, in normal condition. For example, kitchens, garages, steam boiler rooms, or other places where the installation of optical smoke detectors for fire detection is not possible.

Construction

The S2-ARD-300 detector's case is made of durable ABS plastic. Additionally, its mechanical parts are specifically designed to protect the detector from dust and insects.



Isolator Specifications

Maximum line voltage	28V
Minimum line voltage	15V
The maximum voltage at which the device isolates ($V_{SO_{max}}$)	6V
The Minimum voltage at which the device isolates ($V_{SO_{min}}$)	2V
The maximum voltage at which the device reconnects ($V_{Sc_{max}}$)	6V
The Minimum voltage at which the device reconnects ($V_{Sc_{min}}$)	2V
Maximum rated continuous current with the switch closed ($I_{c_{max}}$)	400mA
Maximum rated switching current ($I_{s_{max}}$)	600mA
Maximum leakage current ($I_{L_{max}}$)	8mA
maximum series impedance with the switch closed ($Z_{c_{max}}$)	0.5 Ω