

Temperature Sensor ESMI 52051RE/52051REI

Instruction Sheet
R10060GB1



Schneider Electric
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Safety Information

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

1 Temperature Sensor ESMI 52051RE/52051REI

The ESMI 52051RE/52051REI (product codes below) uses the same thermistor and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C (Response Class A1R).

1.1 AP200 Series detectors

AP200 series detectors for Esmi Sense FDP and FX 3NET Fire Detection Systems with FX-SLC protocol.

AP200 series detectors are compatible with the FX-SLC loop controller (159+159 addresses per loop).

The new FX-SLC protocol delivers more devices on the loop and gives greater control, configurability and device management whilst enabling the overall system to be optimised to the location.

AP200 series detectors are mechanically and electrically backwards compatible with Series 200 devices.

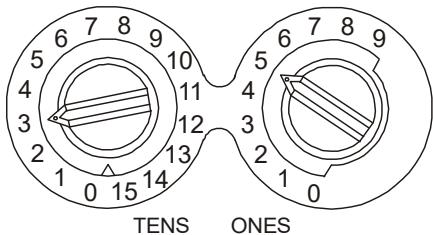
All detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs.

The AP200 series detectors (except ESMI2251CTLE-W) have two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LED colours are red for alarm, amber for fault and green for normal condition. The ESMI2251CTLE-W LED colour is red.

The detectors are available with or without single pole short circuit isolation.

1.2 Address setting

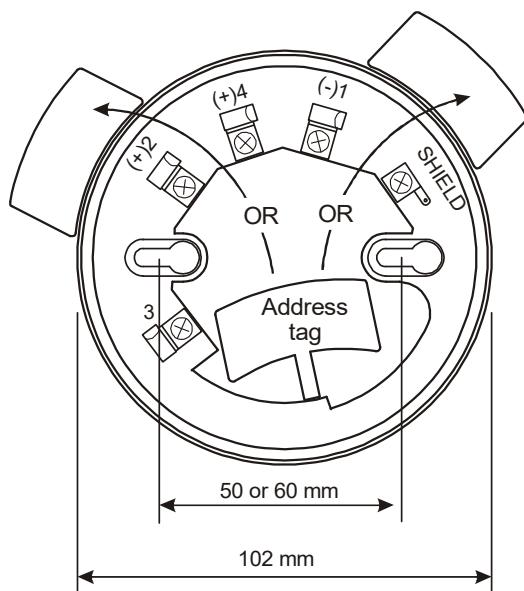
The individual address of detectors is set using the rotary switches.



1.3 Detector base B501AP

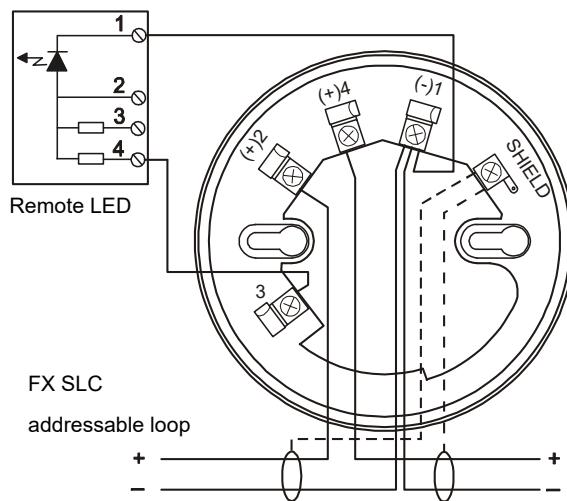


1.4 Mechanical installation



1.5

Electrical connections



1.6

Thermal sensor performance

Thermal sensor	Performance
52051RE	Class A1R, 58°C Fixed temperature and Rate of Rise
52051E	Class A1S, 58°C Fixed temperature
52051HTE	Class BS, 78°C Fixed temperature

1.7

Product Codes

Product	Product code
ESMI 52051REI (with isolator)	FFS06710611
ESMI 52051RE (without isolator)	FFS06710612
ESMI 52051RE (without isolator black)	FFS06710618
B501AP	FFS06710600