

Photo-Thermal Detector

ESMI 22051TE/22051TEI

Instruction Sheet
R10062GB1



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 Photo-Thermal Detector ESMI 22051TE/22051TEI

The multi-criteria detector ESMI 22051TE (FFS06710603, FFS06710604) photo-thermal detector uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The plug-in unit combines two separate sensing elements that are managed by embedded software to act as a single unit. The ESMI 22051TE conforms to EN54-7, a 58°C fixed temperature and rate of rise thermal assistance conforming to EN54-5. In areas where the normal daytime activities may potentially create unwanted alarms, the detector can be programmed to operate in a “heat only” mode, automatically reverting to full photo-thermal operation during unoccupied periods.

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.

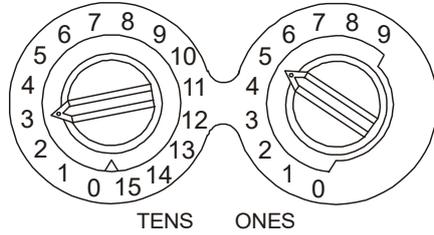
All detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs.

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

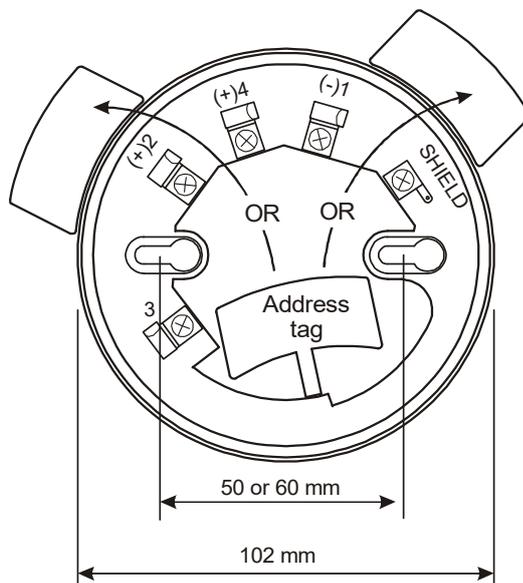
The individual address of detectors is set using the rotary switches.



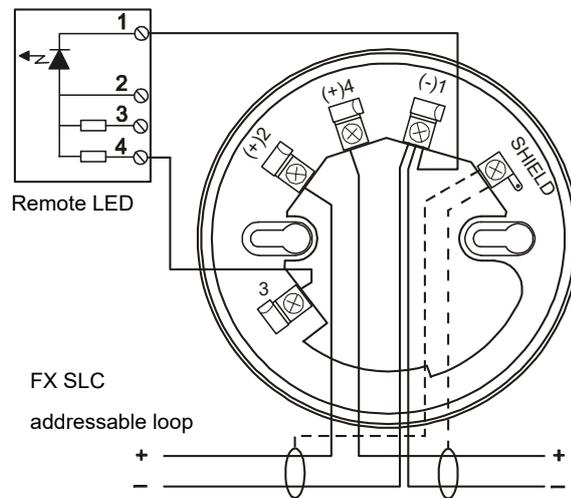
1.3 Detector base B501AP



1.4 Mechanical installation



1.5 Electrical connections



1.6 Product Codes

Product	Product code
ESMI 22051TEI (with isolator)	FFS06710603
ESMI 22051TE (without isolator)	FFS06710604
B501AP	FFS06710600