4-element Multi-Criteria Detector

ESMI 2251CTLE-W

Instruction Sheet

R10064GB0

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1 4-element Multi-Criteria Detector ESMI 2251CTLE-W

The ESMI 2251CTLE-W plug-in fire detector combines 4 separate sensing elements to act as a single unit. CO sensing for monitoring CO products from a smouldering fire, IR sensing for measuring ambient light levels and flame signatures, optical smoke detection and heat detection.

The 2251CTLE detector has been designed for indoor use. It responds far more quickly to an actual fire and has the highest immunity to nuisances. The operating philosophy behind the 2251CTLE detector was to configure it so that it normally operates at a high immunity level, changing to become very sensitive to fires when fire characteristics are sensed. In this way transient nuisances are monitored and ignored, reducing the false alarm rate.

In areas where the normal daytime activities are likely to create unwanted alarms, the detector can be programmed to operate in a “Heat only” mode, automatically reverting to optical-thermal operation during the unoccupied period. The 2251CTLE is thus able to offer exceptional false alarm immunity and excellent fire detection.

Note: The LED colour is red.

Note: Direct sun light (such as mirror reflection) or strong IR light sources directed towards the detectors might saturate the IR sensor.

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 optimised to the location.

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

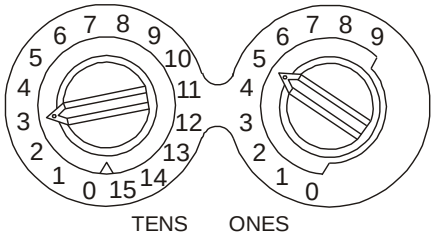
All detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs.

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.

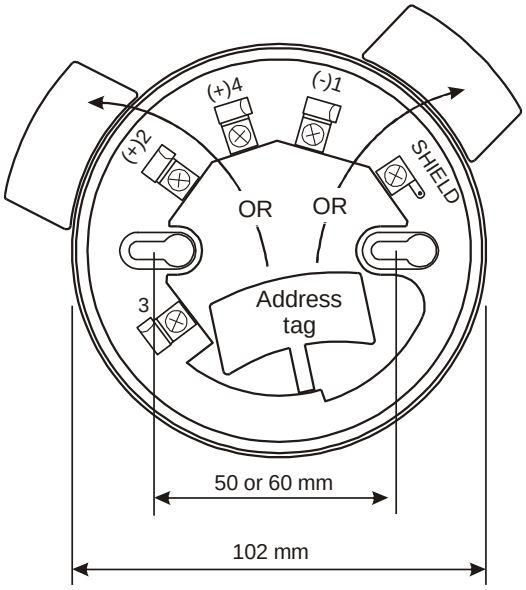


1.3 Detector base B501AP

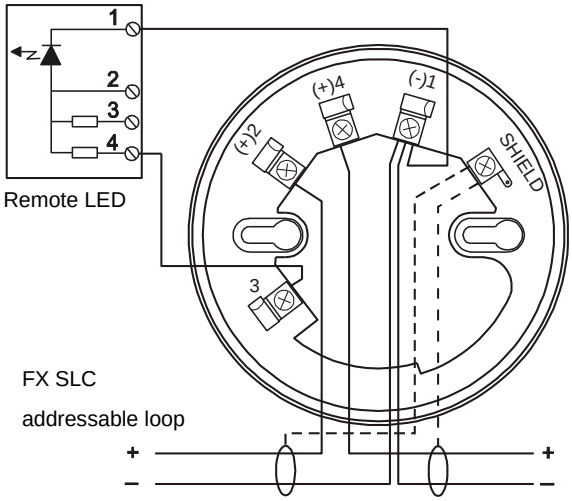
1.4 CO sensing element of the ESMI2251CTLE-W

The CO cell has an expected lifetime of approximately six years. The detector is programmed to signal the approach of end of this lifetime to the control panel. The CO cell is not a field replaceable component and on failure, you should contact the system supplier to arrange for replacement of the cell.

1.5 Mechanical installation



1.6 Electrical connections



1.7 Product Codes

Product	Product code
ESMI 2251CTLE-W (without isolator)	FFS0671 0607
B501AP	FFS0671 0600