

# FireClass XLM800 Loop Expansion Module Installation

## Introduction

The XLM800 fits piggy-back onto the FIM or existing XLM800 and is used as follows:

- To provide a 3rd and 4th loop in a 4 loop Fire-Class controller.

The XLM configuration is as follows:

XLM Arrangement	Configuration
1 x XLM	Base Link (JP3 fitted (see item 9 in Fig. 2)), FIM loops (A&B) XLM loops (C&D)

Table 1: XLM Configuration

## Features

The FireClass XLM800 Loop Expansion Module controls the communications between the detectors (and other ancillaries) connected on the 2-wire loop circuits and the controller. In addition, the XLM800 contains line isolation circuits which protect the loop driver circuit from short-circuit conditions.

## Technical Specification

Table 2 shows the technical specification for the XLM800 loop expansion module.

Parameter	Value
System Compatibility	Use only with FireClass Fire Controllers

Table 2: Technical Specifications

Parameter	Value
Environment	Indoor Application only
Operating Temperature of panel	-5 to +40°C
Storage Temperature	-20 to +85 °C
Operating Humidity	Up to 95% non-condensing
Dimensions (HWD)	17.5 x104 x196 mm
Electrical Characteristics	Input Voltages: +5V +/-0.25 V +24V +/-2.4 V +40V +/-2 V
Battery Requirements	Refer to the latest version of FireClass Designer for Battery and Alarm Power Supply Calculation
Electromagnetic Compatibility	Product family standard EN50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy. EN5008 1-1 for emissions.

Table 2: Technical Specifications (cont.)

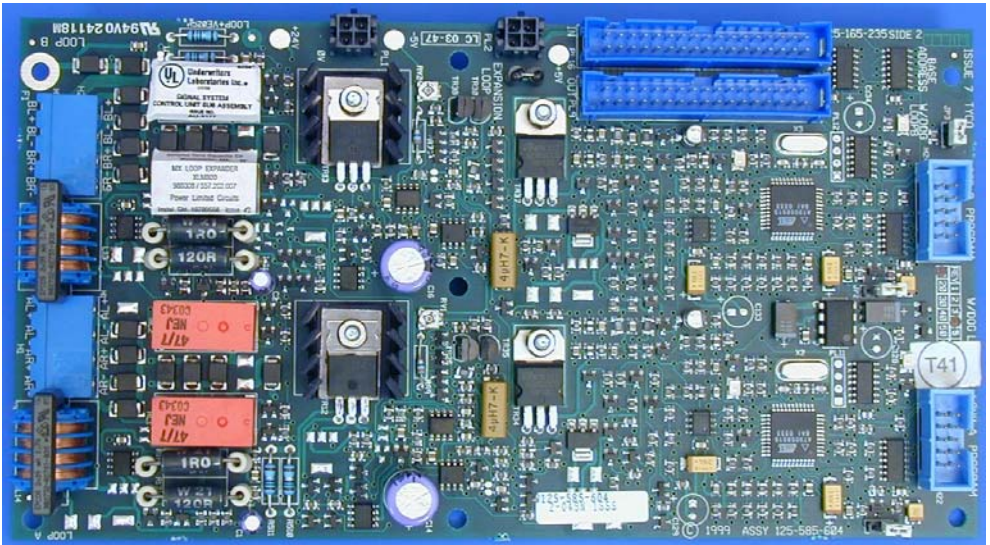


Fig. 1: FireClass XLM800 Loop Expansion Module

## Wiring and Installation Notes

### How to install the FireClass XLM800 Loop Expansion Module

- 1 All wiring must comply with local installation regulations and local fire system design requirements.
- 2 All conductors must be free of earths.
- 3 Ensure that the controller is powered down before connecting FireClass XLM800.
- 4 Connect the ribbon cable (supplied) to FIM PL9.
- 5 Mount the FireClass XLM to the FIM using the stand-offs (supplied) at the positions shown (circled) in Fig. 2.

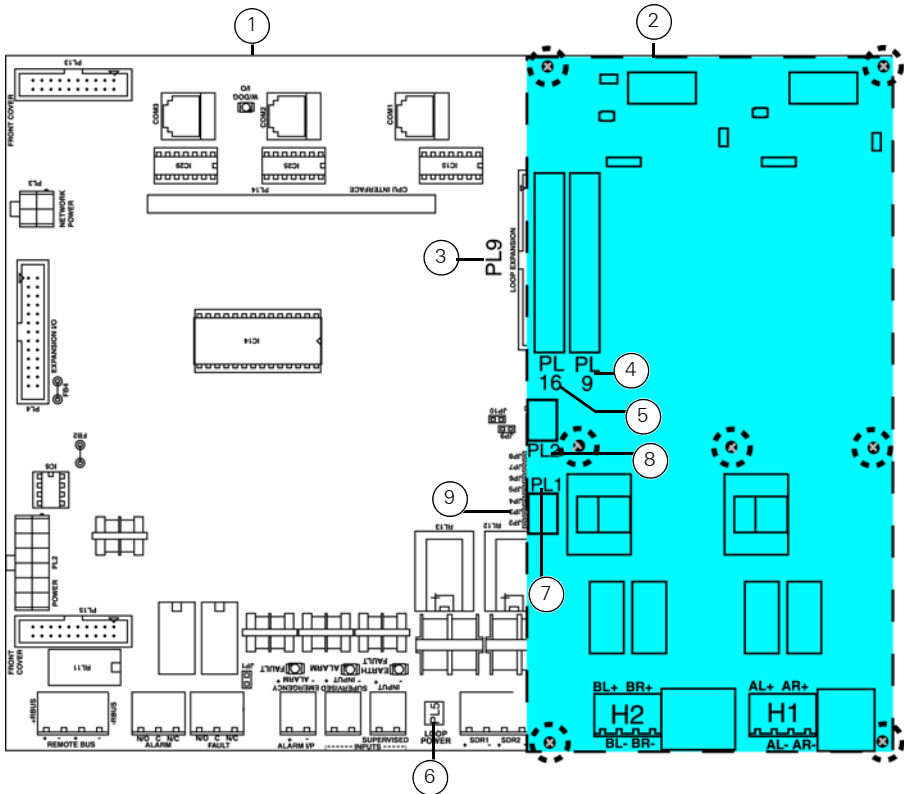


Fig. 2: XLM800 Mounting to FIM

1- FIM800

2- XLM800

3- PL9 on FIM

4- PL9 on XLM

5- PL16 on FIM

6- PL5 on FIM

7- PL1 on XLM

8- PL2 on XLM

9- JP3 on FIM

6 Connect the ribbon cable from PL9 on FIM (see item 3 in Fig. 2) to PL16 on the FireClass XLM800 (see item 5 in Fig. 2).

7 For adding an XLM800 to an 2 loop panel, taking power from the PMM800, then connect 4 way cable from FIM PL5 (see item 6 in Fig. 2) (LoopPower) to the FireClass XLM800 PL1 (see item 7 in Fig. 2).



### Total Loop Power

The total loop 40V power will be limited to 1 Ampere.

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While replacing an XL800 in a 4 loop panel, connect the 4 way cable from XLM800 PL1 to J2 on the PMM840.

- 8 Connect addressable loop cables to loop connectors H1 and H2.

### Ordering Information

FireClass XLM800 Loop Expansion  
Module+Cable: 557.202.007