

Merlin FLM System

Fuel Leak Detection



Key Features:

- 230V or 24V Power Input
- 230V or 24V Fuel Solenoid Valve Isolation Capabilities
- Standalone or Can Be Used With FLMZ Range For Multi-Zone
- LED Status Indicator
- Wiring/Cable Fault Indicator
- BMS/BAS Communications
- Used With S&S FLM Sensing Cable
- In-Built Audible Alarm

Product Overview:

The Merlin FLM system is S&S Northern Ltd's permanent fuel leak detection system, tailored for use in applications such as fuel storage tanks, oil refineries, transportation fleets, aircraft fueling systems, and power generation plants. The Merlin FLM can function as a standalone unit or be integrated into a larger multi-zone detection network. It comes with a clear LED status display, providing real-time monitoring for hydrocarbon fuel leaks, ensuring safety and compliance in projects involving fuel handling, storage, and transport systems.

Operation Overview:

On fuel leak detection the red LED illuminates and buzzer sounds. Solenoid valve and BMS relay switch, strobe relay closes. The mute button toggles audible alarm (buzzer and strobe). Clicking the reset button will reinstate power to the solenoid valve & open fuel supply (f used with solenoid valve).

Press reset button to enable fuel supply. Solenoid valve relay will switch over and the green LED illuminates.

Fault LED disabled on FLM fuel leak monitor.

Compatibility



Sensing Cable

FLMC

2-Core

Pre-Defined Length



Solenoids

OSV

Normally Closed

24V AC / DC

230V AC

Sensitivity

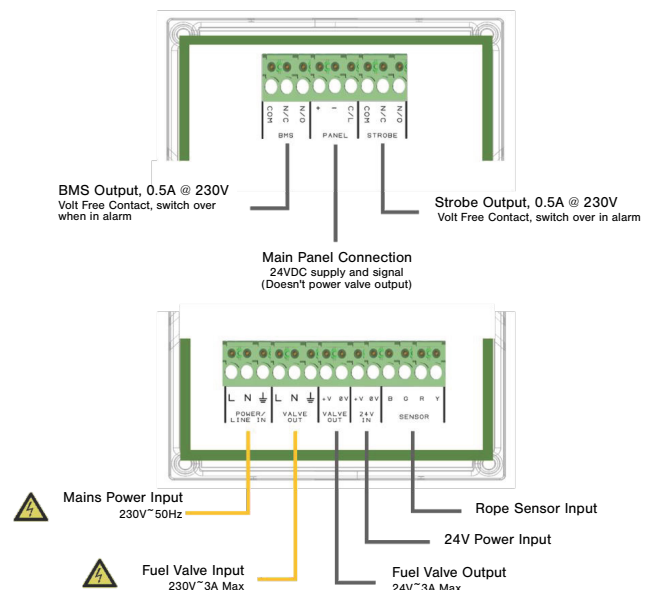
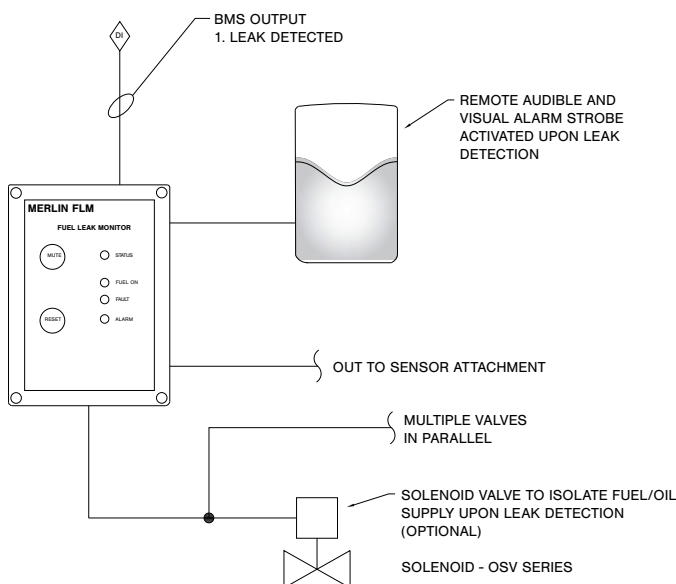
The potentiometer on the circuit board labelled [SENS] can be used to set the sensitivity of the rope sensor.



Technical Specifications

General Specification	Enclosure Dimensions	151 x 111 x 50mm (5.95 x 4.37 x 1.97")
	Enclosure Material	ABS PA765 (Flame Rating UL94 V-1)
	Weight	TBC
	Approvals	UKCA, ROHS, complies with UL61010
	Display	Single tri-colour LED for Fuel On, Fault (Disabled) and Alarm
	Buttons	Mute and Reset push buttons mounted under the label
	Audible Indicator	Internal Buzzer
Electrical	Power Supply	230VAC and 24VAC/DC
	Oil Solenoid Valve Output	Volt free NC/COM/NO, max 3A @ 230V
	BMS Relay Output	Volt free NC/COM/NO, max 3A @ 230V
	Strobe Relay Output	Volt free NO/COM, max 3A @ 230V
LED Indicators	Power On (RED)	Power LED as part of S&S logo
	Fuel On	Green
	Fault	Disabled On This Model
	Alarm	Red
Installation Options	Pententiometer	Adjustable alarm point
User Controls	Reset and Mute	2 momentary push buttons

Controller Capabilities



Attachments

Part Number	Length (M)	Description
FLMC1	1	1M Sensing Cable
FLMC5	5	5M Sensing Cable
FLMC10	10	10M Sensing Cable
FLMC15	15	15M Sensing Cable
FLMC20	20	20M Sensing Cable
FLMCxx	xx	Custom Pre-Defined Length