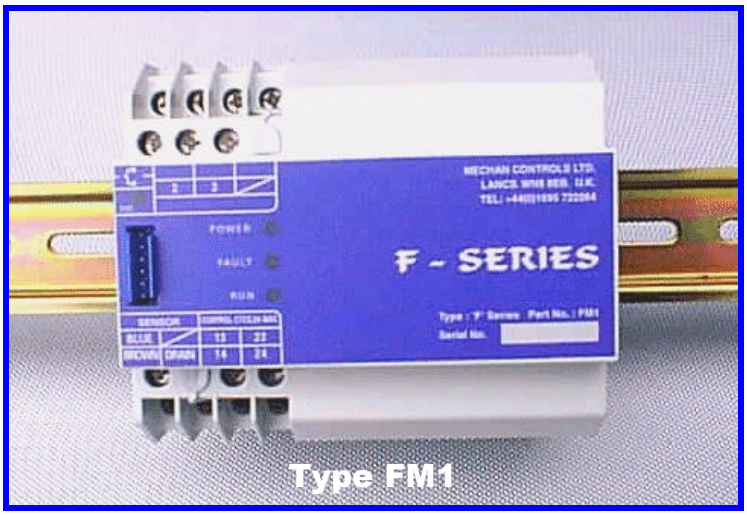

Control Module Type FM1

All Mechan ‘F’ series systems start with the FM1.

The FM1 contains the regulated power supply, dual PGC relays, the external / internal relay monitoring circuit, re-set terminals and system indication along with the input for one safety switch sensor and it’s volt free indicator output.

The FM1 and a Mechan Safety Switch Sensor are all that is required for a system monitoring one guard. Simply clip the FM1 into a suitable control cabinet, fit the safety switch sensor to the guard and connect the supply and the volt free control contacts as shown in the installation guide.

To build systems for monitoring more than one guard, see FX1 and FX2 data sheet.

- Compact, simple to install, 35mm DIN Rail mounting
- Dual ‘PGC’ Relay Outputs
- External Relay / Contactor Monitoring
- LED Status indicators for Power On, Monitoring Fault, System Run
- 1 x Mechan Safety Switch Input and Indicator Output (LED and Volt Free Contact)

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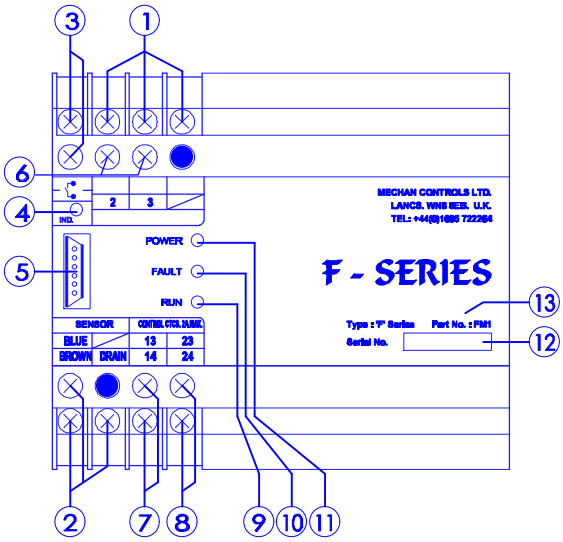
TELEPHONE : + 44 (0)1695 722264 FACSIMILE : + 44 (0)1695 729664 EMAIL : mechan@dial.pipex.com

TECHNICAL SPECIFICATION

CONTROL MODULE - TYPE FM1

PRODUCT IDENTIFICATION

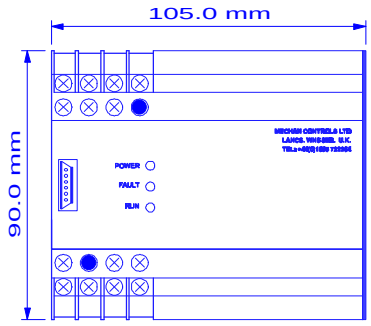
1 Power supply input (see label)
2 Safety Switch Sensor Input
3 Indicator Output (n/o volt free contact)
4 Gate Open Indicator (Red LED)
5 Control Bus
6 External monitoring circuit / re-set circuit
7 Control Output No. 1 (volt free contact)
8 Control Output No. 2 (volt free contact)
9 Run Indicator (Green LED)
10 Fault Indicator (Red LED)
11 Power On Indicator (Red LED)
12 Serial Number
13 Part Number

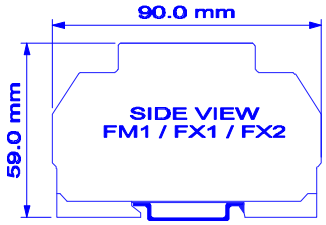


SPECIFICATION

Part Number	FM1
Supply Voltages	240/110/24vAC or 24vDC
Consumption - AC	6VA
Consumption - DC	100mA + 20mA per / Channel
Max. Switching Capacity	2A/240vAC or 2A/30vDC (TUV/UL app. PGC relays)
Protection	IP20
Dimensions	90 x 105 x 59 MM
Fitting	35MM DIN Rail
Operating Temp.	0° to 45°C
Storage Temp.	-20° to 50°C
Indication-System	Power/Run & Fault LED's
Indication-Channel	1xRed LED & 1xN/O contact (0.5A @ 125VAC RES.)

DIMENSIONS





ADDITIONAL ORDERING INFORMATION

1 Part Number = FM1
2 Specify supply voltage you intend to use for the FM1, from : 24vDC / 24, 110, 240vAC)
3 Each FM1 is supplied complete with the CT1 control bus terminator
4 The FM1 is the main control module for all 'F' series safety systems.

*See the 'F' Series Safety System literature, document number: **f-lit-v2** for more general information or the 'F' Series Installation Guide for detailed installation notes, document number **f-ins-v2***

The 'F' series Mechan Safety switch complies with all relevant Essential Health and Safety Requirements of the Machinery Directive (89/392/EEC & amendments 91/368/EEC, 94/44/EEC). The 'F' series has been independently tested to meet the 'Heavy Industrial' Specification of the EMC Directive for both emissions and immunity (BS EN 50081-2 & 50082-2) The CE marking relates to the EMC Directive.

Copies of the Certificate of Conformity can be obtained from Mechan Controls Limited

In the interest of product development, specifications are subject to change without notice.
Document No. - f-fm1-V3 / 1/10/98

It is the responsibility of the user to ensure compliance with any acts or by-laws in force.

All information regarding Mechan equipment is believed to be accurate at the time of printing. Responsibility cannot be accepted for errors or omissions.

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