

## Extender Module type FX1 / FX2

The FX1 and FX2 extender modules are one and two channel extensions to the main control module, the FM1. Each extender has either one (the FX1) or two (the FX2) Mechan safety switch sensor inputs.

To build larger systems simply decide the number of guards you intend to monitor, connect the required number of one or two channel extender modules to the FM1 by plugging the connector strap from each extender into the adjacent module.

example:- Required No. of Extenders + FM1			
No. of Guards	FM1	FX1	FX2
3	1	0	1
5	1	0	2
6	1	1	2

Using these extenders, a single system can be built to monitor up to 30 guards, each one having a guard open LED and volt free contact for indication / PLC signalling. Systems for monitoring more than 30 guards can be assembled using multiple FM1's.

- Slim-line, space saving extenders (17.5mm wide ) 35mm DIN Rail mounting
- One or two safety switch sensor input versions
- LED and volt free contact indication for each safety switch
- Simple to extend systems as required.

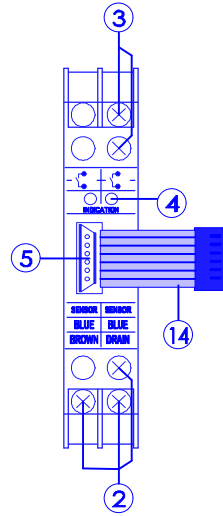
# TECHNICAL SPECIFICATION

## CONTROL MODULE - TYPE FX1 / FX2

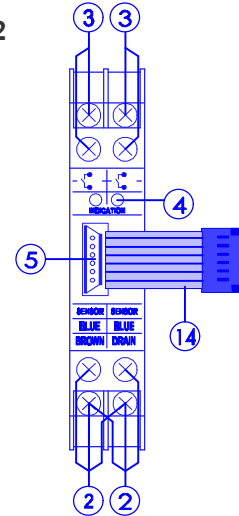
### PRODUCT IDENTIFICATION

- 2 Safety Switch Sensor Input
- 3 Indicator Output (n/o volt free contact)
- 4 Gate Open Indicator (Red LED)
- 5 Control Bus
- 14 Control Bus Connector Strap

FX1



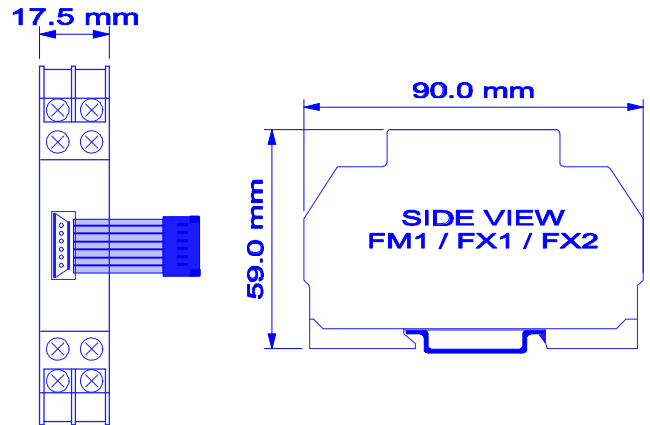
FX2



### SPECIFICATION

Part Number	FX1
Protection	IP20
Dimensions	90 X 17.5 X 59 mm
Fitting	35mm DIN Rail
Operating Temp.	
Storage Temp.	
Indication-Channel	1xRed LED & 1xN/O contact
Part Number	FX2
Protection	IP20
Dimensions	90 X 17.5 X 59 mm
Fitting	35mm DIN Rail
Operating Temp.	
Storage Temp.	
Indication-Channel	2xRed LED & 2xN/O contact

### DIMENSIONS



### ADDITIONAL ORDERING INFORMATION

- 1 Part Numbers : FX1 = 1 Channel Extender, FX2 = 2 Channel Extender
- 2 DC supplied systems can have up to 30 channels per FM1
- 3 AC supplied systems can have up to 9 channels (i.e. 1 x FM1 + 4 x FX2 or 8 x FX1) and then require a PB10 Power Boost unit for the next 10 Channels (maximum 29 channel using 1 x FM1 and 2 x PB10 and extenders).

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-fx-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.