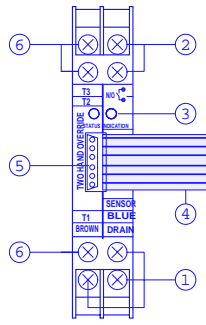


MECHAN CONTROLS 'F' SERIES TWO HAND OVERRIDE INSTALLATION GUIDE



- 1) **PRODUCT IDENTIFICATION**
1. Safety Switch Sensor Input
 2. Indicator Output (N/O Volt Free Contact)
 3. Red LED—Gate Open Indicator
 4. Control Bus Connector Strap
 5. Control Bus
 6. Two Button Station Inputs



This information is designed to help suitably qualified personnel install and operate Mechan Safety Switch equipment. Before using this product, read this guide thoroughly along with any relevant European and/or National standards e.g. Machinery Directive 89/392/EEC and its amendments, Provision and Use of Work Equipment Regulations. Further information can be obtained from Mechan Controls Limited

***** KEEP THIS GUIDE FOR FUTURE REFERENCE *****

CONTENTS	1 Product Identification	4 Connections
	2 Description	
	3 Dimension & Specification	

2) Description

The Mechan 'F' Series two hand override unit is a complete single channel extender module (like the FX1) with the facility to be overridden by a 'Two hand synchronous action' as described in EN 574, section 5.7
The two hand override unit has one safety switch sensor input, one volt free contact indicator output and terminals to attach two override buttons or a two hand station. This unit is connected along with the other FX extenders as required to a FM1 control Module (See F-SERIES installation guide for more information on the basic F-SERIES installation)

OPERATION

The safety switch sensor connected to the F2HO will be overridden when BOTH buttons are pressed and:

The FM1 Control Relays (Terminals 13/14 & 23/24) will close if:

- 1) All other safety switches connected to the F-Series control unit are closed.
- and 2) Both buttons have been pressed within 0.5 seconds of each other, and are held for the period of time required.

The FM1 Control Relays (Terminals 13/14 & 23/24) will open when:

- 1) Any other safety switch connected to the F-Series control unit is opened.
- Or 2) One or Both buttons have been released.

NOTE: 1) Both buttons must be released before the system will reset
2) It is the responsibility of the installer to ensure the buttons are correctly sited as described in EN574 (Sections 8 & 9) to avoid misuse or accidental operation, and connected as described overleaf.

3) Dimensions and Specification

<p>Dimensions</p> <p>Assembly</p> <p>The F2HO mounts onto standard 35mm DIN Rail.</p> <p>Use the clip at the bottom of the unit to release it from the DIN Rail.</p> <p>Assemble all the components (as below) ensuring the CT1 terminator plug supplied with the FM1 is in the last module. See the F-SERIES installation guide for full details.</p>	<p>SPECIFICATIONS</p> <table border="1"> <tr> <td>Override Type</td> <td>Two hand synchronous action required (Type IIIC)</td> </tr> <tr> <td>Override Buttons</td> <td>Gold flashed contacts (Suitable for low voltage/low current) Not supplied</td> </tr> <tr> <td>Mounting</td> <td>Clip on to 35mm DIN Rail</td> </tr> <tr> <td>Dimensions</td> <td>90 x 17.5 x 59 mm (HxWxD)</td> </tr> <tr> <td>Protection</td> <td>IP20, Systems should be mounted in an IP55(min) enclosure</td> </tr> </table>	Override Type	Two hand synchronous action required (Type IIIC)	Override Buttons	Gold flashed contacts (Suitable for low voltage/low current) Not supplied	Mounting	Clip on to 35mm DIN Rail	Dimensions	90 x 17.5 x 59 mm (HxWxD)	Protection	IP20, Systems should be mounted in an IP55(min) enclosure
Override Type	Two hand synchronous action required (Type IIIC)										
Override Buttons	Gold flashed contacts (Suitable for low voltage/low current) Not supplied										
Mounting	Clip on to 35mm DIN Rail										
Dimensions	90 x 17.5 x 59 mm (HxWxD)										
Protection	IP20, Systems should be mounted in an IP55(min) enclosure										

Mechan Controls Limited

Electronic Safety Switches

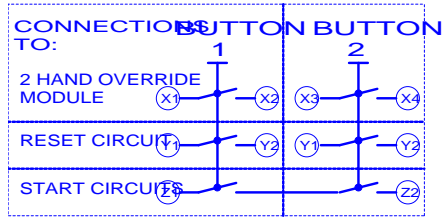
MECHAN CONTROLS LIMITED, 14/16 SEDDON PLACE, STANLEY INDUSTRIAL ESTATE, SKELMERSDALE, LANCASHIRE, WN8 8EB
Tel : + 44 (0)1695 722264 Fax : + 44 (0)1695 729664 WEB : www.mechancontrols.co.uk Email : technical@mechancontrols.co.uk

4a) SINGLE CHANNEL CONTROL CIRCUITS

TWO HAND STATION

F-SERIES
SAFETY SYSTEM

TABLE 1



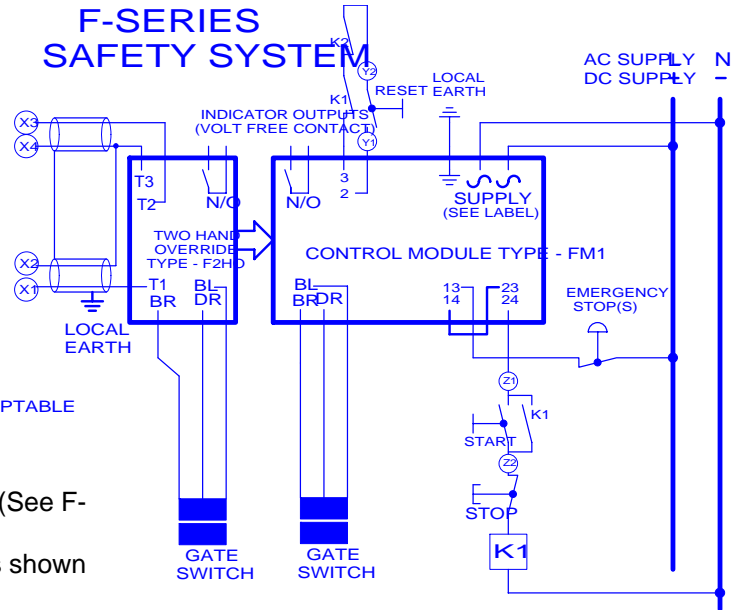
NOTE: CONNECTIONS TO X1/X2/X3/X4 MUST BE SCREENED
4 CORE WITH OVERALL SCREENING IS ACCEPTABLE

INSTALLATION NOTES

- 1 Assemble the F-SERIES control system as required (See F-SERIES installation guide for full details)
- 2 Connect the control relays and supply / indication as shown opposite for a single channel control circuit
- 3 Install the safety switch sensors
- 4 Ensure the gate to be overridden is connected to the F2HO
- 5 Connect the Two button station as shown in table 1

BUTTON 1 & 2	CONTACT 1	To Two Hand Override Module
BUTTON 1 & 2	CONTACT 2	In parallel across the reset button contact
BUTTON 1 & 2	CONTACT 3	In series across the start circuit

IMPORTANT: Check the operation of all safety functions after installation to ensure the correct operation

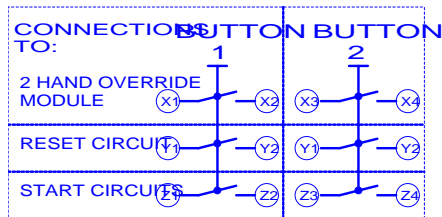


4b) DUAL CHANNEL CONTROL CIRCUITS

TWO HAND STATION

F-SERIES
SAFETY SYSTEM

TABLE 2



NOTE: CONNECTIONS TO X1/X2/X3/X4 MUST BE SCREENED
4 CORE WITH OVERALL SCREENING IS ACCEPTABLE

INSTALLATION NOTES

- 1 Assemble the F-SERIES control system as required (See F-SERIES installation guide for full details)
- 2 Connect the Two Button station as shown in table 2

BUTTON 1 & 2	CONTACT 1	To Two Hand Override Module
BUTTON 1 & 2	CONTACT 2	In parallel across the reset button contact
BUTTON 1 & 2	CONTACT 3	In parallel across each start button

IMPORTANT: Ensure that Button 1 & Button 2 (Contact 2) are connected in parallel across the reset button to ensure the correct operation

