

TWO HAND CONTROLLER

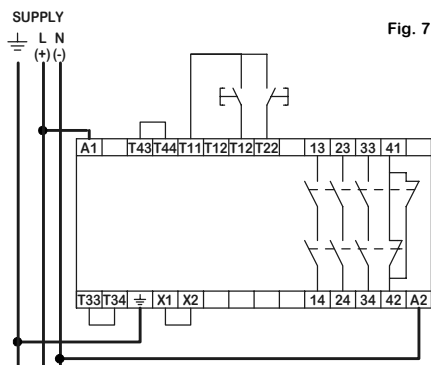


Fig. 7

The SRL3/DIN can also be configured as a Two Hand Control, as described in BS EN 60204 pt1 9.2.5.7. Type 3.

Both buttons must be pressed within <0.5 second to operate the machine.
Releasing either button will stop the machine.
Both buttons must be released before the cycle can be reinitiated.

SRL3/DIN SAFETY RELAY SPECIFICATION

SUPPLY VOLTAGES AVAILABLE	240vAC; 110vAC AND 24vDC
POWER CONSUMPTION	2VA
RELAY CONTACTS	3 X N/O FORCED GUIDED CONTACTS
INDICATOR CONTACTS	1 X N/C
MAXIMUM SWITCHING CAPACITY	5A, 240vAC / 2A 30vDC RES.
PROTECTION	HOUSING - IP40 TERMINALS - IP20
DIMENSIONS	100 x 75 x 110 mm
MOUNTING	35MM DIN RAIL / 2 X 4 mm HOLES
OPERATING TEMP.	0 TO 50C
STORAGE TEMP.	-20 TO +50C
SYSTEM INDICATION	POWER ON LED FAULT LED RUN LED

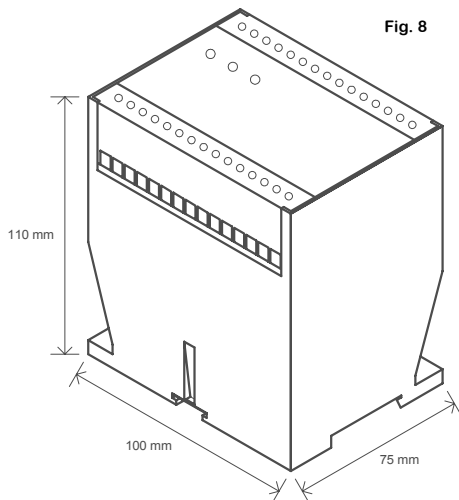
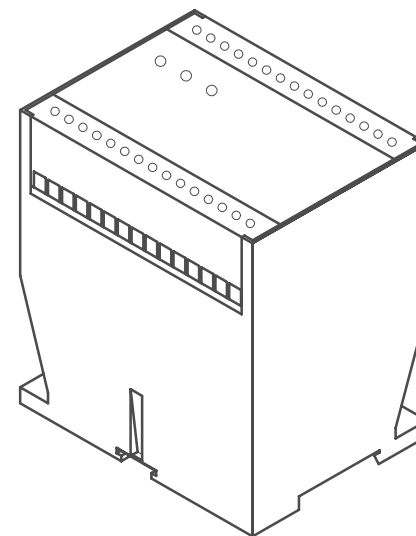


Fig. 8

MECHAN

SAFETY SWITCHES



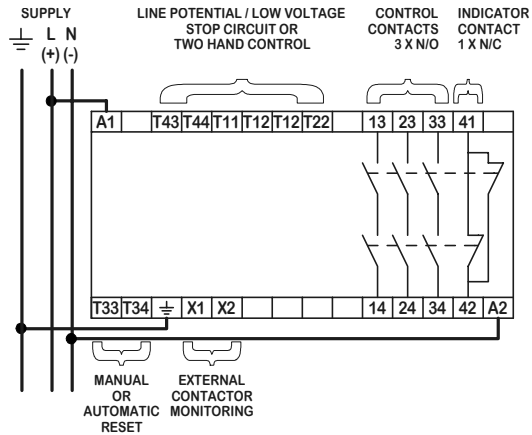
INSTALLATION GUIDELINES SRL3/DIN SAFETY RELAY

**FOR
SAFETY
AND
RELIABILITY**



MECHAN CONTROLS LIMITED
14/16 Seddon Place
Stanley Industrial Estate
Skelmersdale
Lancashire WN8 8EB
England
Telephone (44) 01695 722264

SRL3/DIN SAFETY RELAY



PRODUCT DESCRIPTION

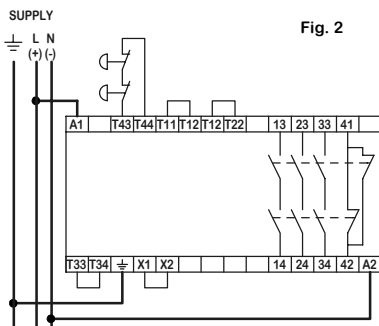
The SRL3/DIN is a multi-function Safety Relay that can be configured for **single** or **dual channel input** with **Low Voltage (24v)** stop circuits, or **single channel input** with **Line Potential** stop circuits.

The SRL3/DIN provides three Normally Open control contacts and one Normally Closed indicator contact, and is designed to replace standard relays in stop circuits providing “**partial or complete redundancy it is possible to minimize the probability that one single failure in the electrical circuit can give rise to a hazard**” (BS EN 60204 pt1 9.4.2.2)

The SRL3/DIN can also be used as a **Two Hand Controller** conforming with TYPE 3 as described in BS EN 60204 pt1 9.2.5.7

LINE POTENTIAL STOP CIRCUIT

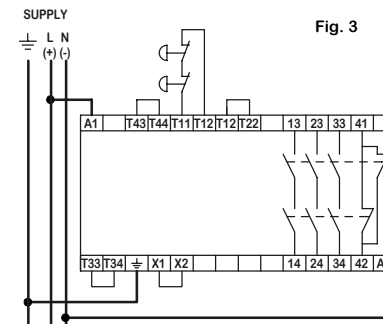
SINGLE CHANNEL



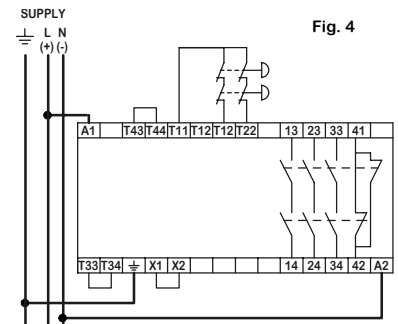
NOTE - In Single channel stop circuits a short across the stop buttons will not be detected.

LOW VOLTAGE STOP CIRCUIT

SINGLE CHANNEL



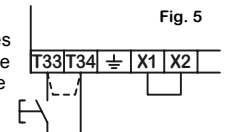
DUAL CHANNEL



MANUAL / AUTOMATIC RESET

MANUAL RESET

A Normally Open push-button connecting T33 and T34 ensures a separate operation is required to restart the machine after the emergency stops are unlatched or the safety gate monitors are closed.



AUTOMATIC RESET

A link between T33 and T34 will ensure automatic resetting of the safety relay when the emergency stops are unlatched or the safety gate monitors are closed.

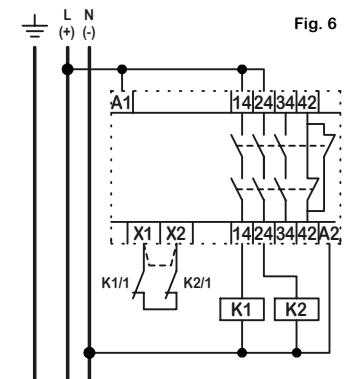
EXTERNAL CONTACTOR MONITORING

EXTERNAL CONTACTOR MONITORING

External contactors may be used to increase the switching capacity of the system. These should have **Positively Guided Contacts**.

One of the external relay's Normally Closed contacts in series with X1 and X2 allows the SRL3/DIN to monitor the relay before it can be energised. If the external relay is faulty (i.e. welded contacts) the proving action of the safety relay will prevent a restart. The fault light will show so that the problem can be identified.

To maintain the integrity of the Mechan Safety Relay, external contactors should be duplicated as shown.



IMPORTANT -

Mechan safety equipment should be installed by qualified personnel. All system functions should be tested after installation to ensure correct operation.