



Operating Manual

A 4568 Line Monitor FIB Interface



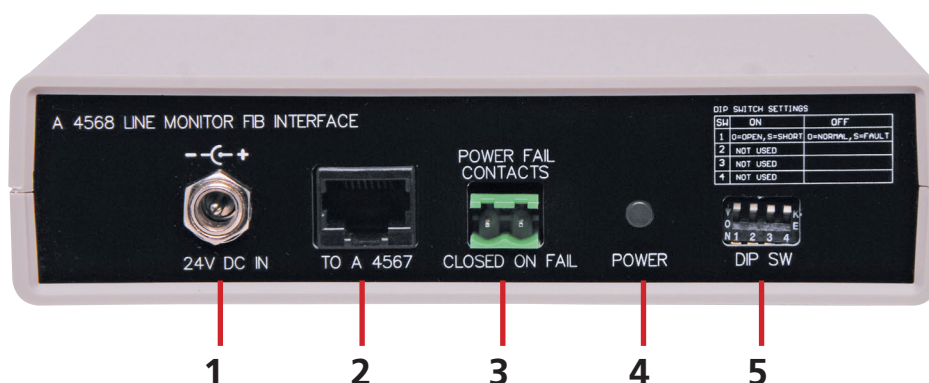
OVERVIEW

The A 4568 is an interface which enables monitoring of the status of each of the 10 zones of the A 4567 Line Monitor. The interface can be set up to monitor each zone in one of two ways. The first indicates normal or any fault (short or open circuit) condition for each zone and the second indicates either a short or an open circuit condition for each zone.

OPERATION

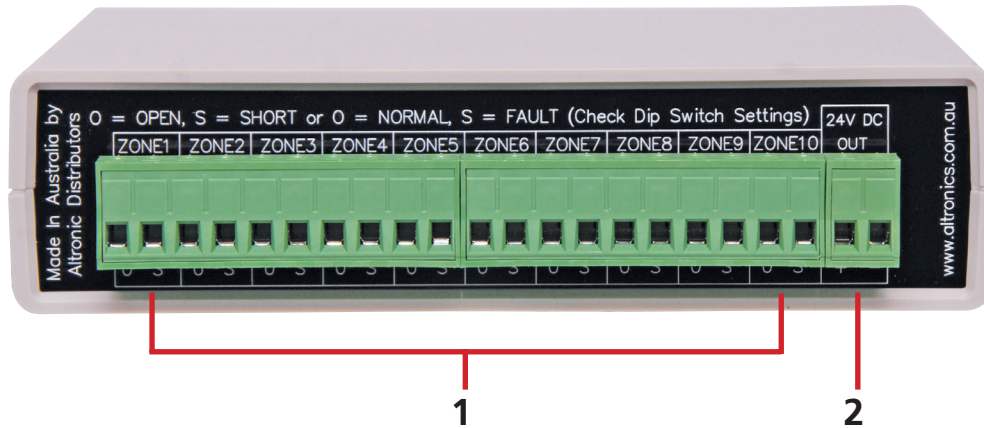
The unit is connected to the A 4567 via a Cat5e patch lead. This lead provides power (24VDC @ 120mA) and the fault status from each of the A 4567's zones. Screw terminals on the rear of the unit are used to connect to the remote monitor panel. Depending on the setting of Dip Sw 1 the output of each zone can be monitored for either a short or open condition or for a normal or any fault condition. A 24V DC output terminal is also included on the unit, which is used in conjunction with the fault output terminals. When an output is activated it switches to ground. See Fig 1 for more details. A Power Fail contact is also provided for the monitoring of the power to the A 4567. In the event of the loss of power these contacts will close.

FRONT PANEL CONNECTIONS



- 1 24V DC Input**
Provides power to the unit via a 2.1mm DC jack. This is used if more than 120mA of total load current is required for the fault output terminals on the rear of the unit.
- 2 RJ45 Connection to A 4567**
Provides 24V DC power (limited to 120mA) and fault signals from the A 4567 speaker line monitor.
- 3 Power Fail Contacts**
This contact is normally open and closes when power is removed from the unit.
- 4 Power Led**
Indicates when the unit is receiving power from either the RJ45 connection or an external 24V DC source.
- 5 DIP Switches**
Used to select the fault status of the rear terminals.
Switch 1 is the only switch currently used. If set to "ON" the fault contacts on the rear of the unit signify either an "Open circuit" or "Short circuit" fault on a zone. If set to the "OFF" position the fault contacts signify either "Normal condition" or "Any fault (i.e. short circuit or open circuit)" condition on a zone.

REAR PANEL CONNECTIONS



1 Fault Output Contacts

These contacts switch to ground and can be used to drive a 24V DC relay or lamp etc.

2 24V DC Output.

This output provides a constant 24V DC output. This 24V is used to provide power to the fault contacts.

In the example shown in Fig 1 the terminal labelled "S" on the zone 1 terminals of the A 4568 is connected to the negative connection on a relay, lamp etc. The "+ve" terminal of the 24V DC Out terminal on the rear of the A 4568 is connected to the positive connection on the relay, lamp etc.

With DIP SW 1 set to the "ON" position, (if a short condition only) occurs on zone 1 of the A 4567 Line Monitor the "S" terminal of the A 4568 will switch to ground triggering the 24V relay.

If DIP SW 1 was set to the "OFF" position and either a short or open circuit condition occurred on zone 1 of the A 4567 the "S" terminal would switch to ground triggering the 24V relay.

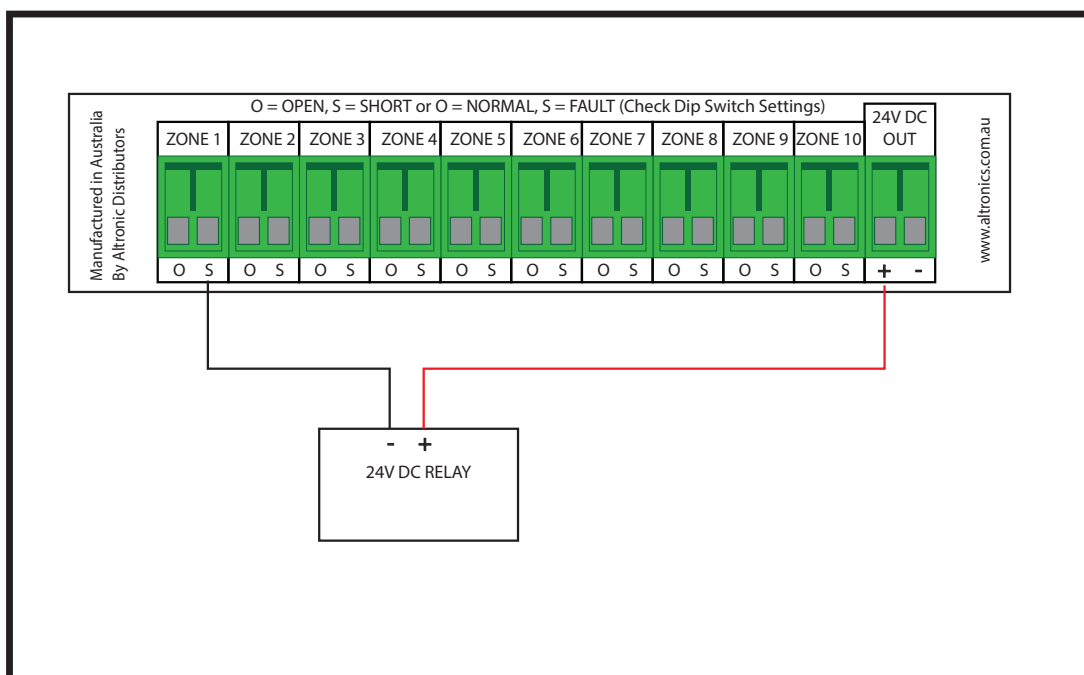


Fig 1