

AC1 AC / DC CONVERTOR MODULE

Introduction

The AC1 is a simple to use AC to DC converter with lock output. The module accepts an AC input voltage between 12 – 18V and will supply a 12V DC output to operate locks or other auxiliary equipment requiring a 12V DC supply.

Specification

Dimensions	70 x 59 mm.
Input Voltage	12 to 18V AC.
Output Current	0.5A continuous (Max)
Output	Changeover Relay contacts Switching 12V @ 1A max 12V DC output
Trigger Inputs	RTE Clean Contact N/O switch input e.g. exit button LB Voltage Input E.g. Handset Lock Button
Timer	Relay operates for 5 seconds after triggering

Connection

Terminal (CN1) AC	Connection for an AC power supply in the range 12-18V
Terminal (CN1) NC, 0V, NO	Lock Connection
Terminal (CN2) LB	Handset Lock Button connection
Terminal (CN3) RTE	Exit Button connection
Terminal (CN4) 0V, 12V	Auxiliary 12V output

Operation

Connect an AC power supply, as used in audio and video door entry systems, to the terminals AC of the PCB. Connect a 12V DC lock –VE to 0V and +VE to either NO or NC depending on lock type.

An exit button connected across the RTE terminals when pressed will operate the lock for approximately 5 seconds.

The handset lock button wire can be connected to either input of the LB terminals. When the lock button is pressed on the handset the lock will operate for approximately 5 seconds.

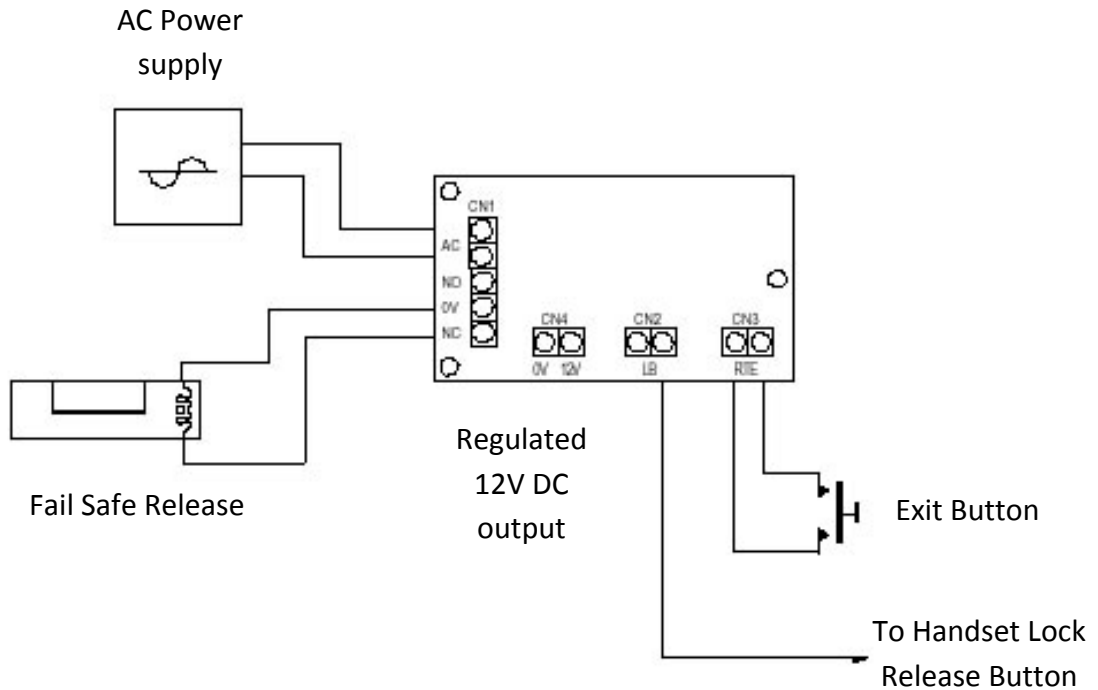
A regulated 12V output is available to power auxiliary equipment.

The board can supply 0.5A continuous for locks and auxiliary equipment.



WIRING EXAMPLE FAIL SAFE RELEASE

Fail Safe releases require power to be applied to remain locked. When the power is removed the release will unlock.



WIRING EXAMPLE FAIL SECURE RELEASE

Fail Secure releases will be locked when there is no power applied to it. To unlock the release power must be applied.

