

## DA560 3 door interlock

Supply : 14.5 to 11v DC

Input : Controller "GO" (open) signal : +VE = Secure, OV = Release.  
Door (or lock) contact : +VE = Secure , OV = Open

Outputs for each door: Relay contact closed = Secure +  
Relay contact open = Released

(optional) Excess time alarm : + transistor output  
(fitted) violate alarm (2 doors open) : 1 pole change-over

### **OPERATION**

When secure, each controller feeds a +VE to the processor. To open a door, this drops to 0V. The processor checks the other controllers and door contacts. If all are secure , the requested door is released, for a time (t1) set by the controller. The processor will not allow another door to open until t1 expires and the door is closed & locked

Once released and opened, a door timer (t2) is started. If the door is not closed before t2 expires (1/2, 1 , 3 or 5 mins), terminal A3 operates. This is reset as soon as the door is closed. (optional fit)

If two doors are ever open together, either by force or fault, an alarm contact operates (Relay D). As supplied, this option is fitted. To use the time alarm, obtain our DA220 relay & wire term A3 to relay term 6. Alternatively to change relay D to be time alarm output, move the blue wire from processor term A4 & fit into term A3.

### **CONNECTIONS**

Supply : +12V to relay PCB +, & 0V to Relay PCB - .

Wire a switched +VE from each of the following :-

Door 1 contact, to DA 560, B0.	Door 1 control to DA 560, B3
.....2 ..... B1	..... 2 ..... B4
..... 3 ..... B2	.....3..... B5

(the door contact can be the lock signal, or a door magnet/reed)

Door 1 maglock VIA relay A,3 & 5 (normally closed open to release)

..... 2 ..... B,3 & 5
.....3 ..... B,2 & 5

Alternative. if your maglocks are computer controlled and the inter lock is an input to the computer, amend as follows. Ignore maglock connections to relay card. Use relays A, B & C contacts to signal release to computer.

Term 3 common

Term 4 NC un powered

Term 5 NO un powered

When locked the relay is energized.

Two door violate, or timer alarm, relay D, 3/4/5.(term 3 = com)

(optional external relay DA220, terms 7/8/9, 10/11/12)

To set timer t2, on the processor board, link terms B6 & B7

As follows. Time = ½ min ; B6 & B7 open

“ “ = 1 min ; B6 open, B7 +VE

“ “ = 3 min ; B6 + VE, B7 = open

“ “ = 5 min ; B6 & B7 + VE

### **Power Fail response**

Loss of the 12 volt supply will release all doors and activate both the voltage and time alarms. However operation of the fire &/or break glass units will cause alarm only when two doors are open or t2 is exceeded. (SEE TYPICAL WIRING SKETCH)

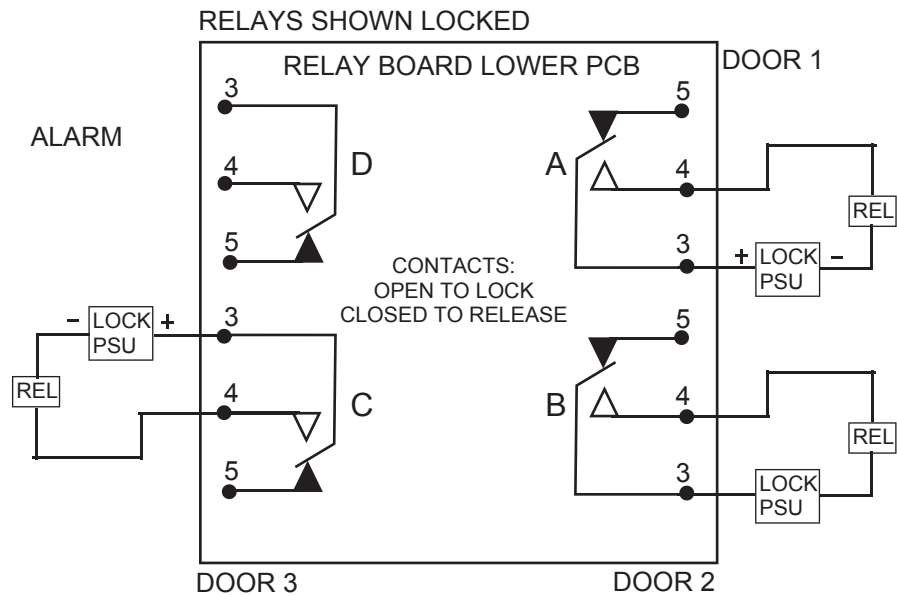
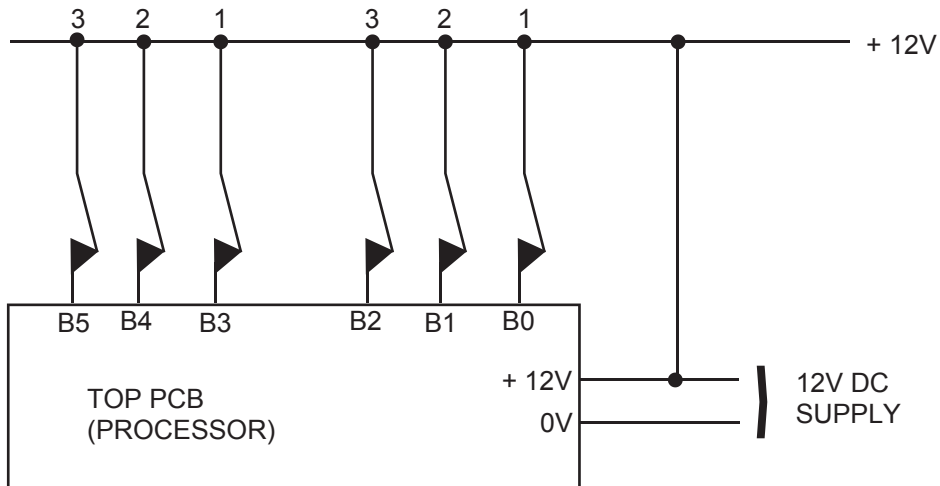
### **IMPORTANT NOTE**

**If push buttons are used to request release they must be normal closed, & push to open (see instructions). When the button is released, the door is locked immediately. You may need a timer to extend the release time. Contact K. Beasley to discuss special options.**

**DA560. 3 DOOR INTERLOCK  
FOR USE WITH ACCESS CONTROLLER  
AND ELECTRIC RELEASE**

CONTROLLER  
'GO' CONTACTS.  
CLOSED TO LOCK.  
OPENED TO RELEASE.

LOCK MONITORS / DOOR CONTACTS  
DOOR CONTACTS.  
CLOSED WHEN SECURE.  
OPEN WHEN NOT SECURE.



YOU ARE RESPONSIBLE FOR EMERGENCY RELEASE

P.T.O. For  
MAGLOCKS