@llgood secure

71331P

Access Control System

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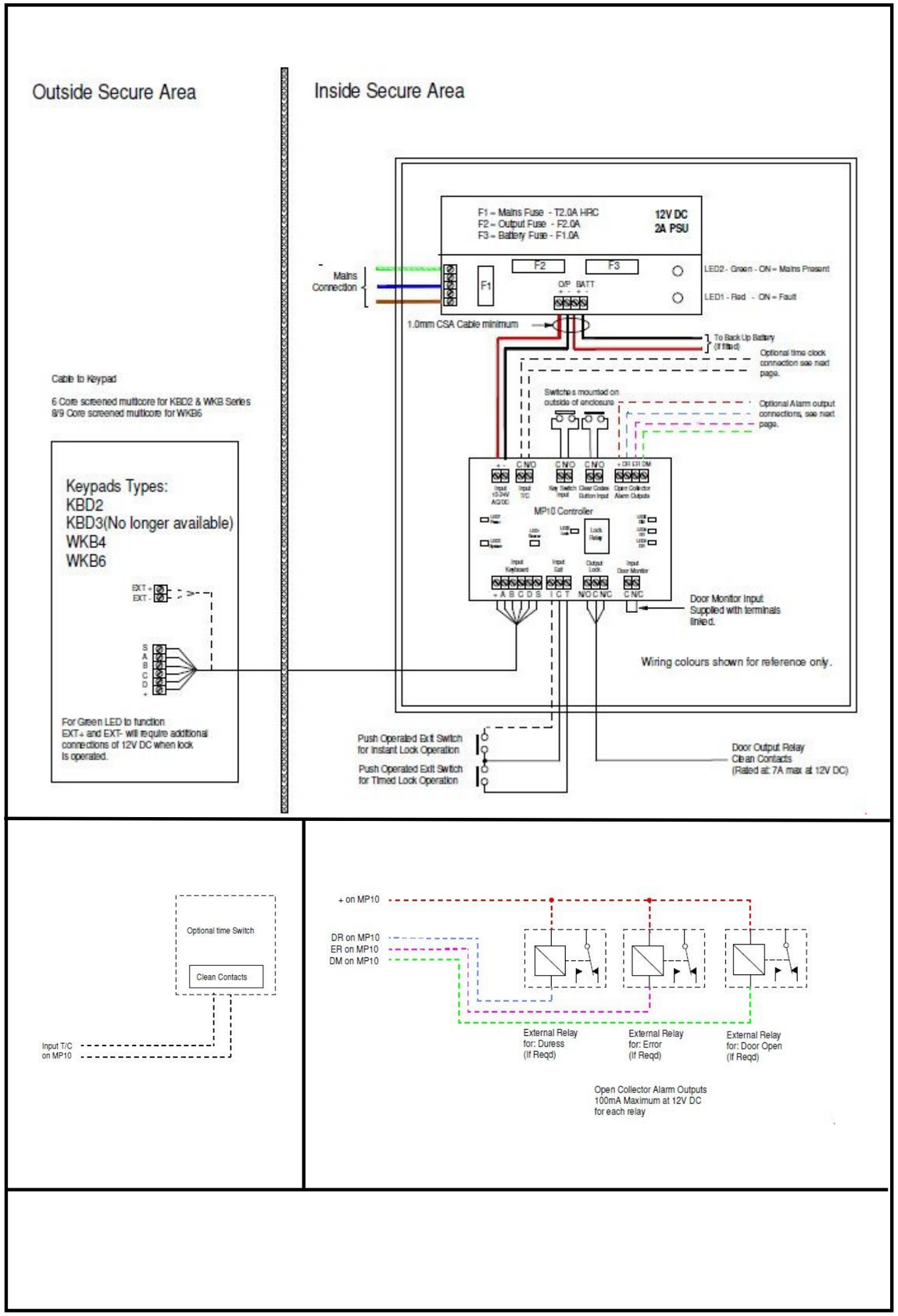
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Ratings

Internal PSU 12V DC 2A

Open Collector outputs 100mA each max per output (Door Monitor, Error Count, Duress)

Clean lock contacts rated at 7A Maximum at 14V DC



Configuration Examples

Door Monitor Alarm

Lock release time set to 10 secs, door monitor time set to 10 secs. Door monitor alarm set to 'On', normally closed Door monitor contacts connected to Door monitor input.

1 If the door remains open for more than 10 seconds after the lock release time has expired the door monitor alarm output will be ON. (Total time before alarm = 20 secs (10 secs Lock Release + 10 Secs Door Monitor)

2 If the door is opened without a lock release taking place the door monitor alarm output will be ON immediately.

When the Door Monitor function is set to ON.

Error Count

The error count can be set to Off or up to 10 incorrect codes.

The error count alarm will trigger the error count alarm output when more than the programmed number of incorrect codes have been entered at the keypad and the Error count is set to ON.

Duress Code

Duress code set to 5, user code 123456, user enters 123455, duress alarm output will be triggered.

Duress code set to +1, User code 123456 user enters 123457 (= 6+1) duress alarm output will be triggered.

When the Duress function is set to ON.

Timed Code Operation

When the input connected to terminals 'Input T/C ' are closed only 4 digit codes will be recognised.

When the input connected to terminals 'Input T/C' are open all programmed codes of 4 to 7 digits will be recognised.

This enables a time clock to be connected to terminals 'Input T/C' which can be used to operate the timed code operations.

All alarms can be reset by turning the Key switch to 'Prog' and back to 'On'

Functions

Keyswitch	ON = Normal function PROG = Programming Mode
Reset Button	Resets all parameters including any entered codes when pressed with the keyswitch set to 'PROG'
Sounder	1 Short beep for keypad key presses 1 Long beep for setting stored 2 Beeps for Keyswitch to 'PROG' from 'ON' 3 Beeps for an error
System LED	Flashing slowly in normal operating mode, On continuously when in Programming mode.
Lock Output Relay	This is a voltage free set of clean contacts. Use these contacts to switch the required lock output supply (12V DC available from internal power supply, other voltages will require a separate external power supply)

Quick Setup

1 Connect keypad to controller (Allgood 71322SS)
For configuration purposes we would recommend temporarily connecting the keypad locally on a short length of suitable multicore cable.

2 Connect Exit Button if required to either Instant or Timed connection.

3 Connect lock as required (Fail secure via N/O contacts or Fail safe via N/C contacts)
Either the internal 12V Dc 2A rated power supply can be used OR an external power supply can be used via the controllers clean contacts.

4 Programme at least 1 keycode by carrying out the following operations:
Keyswitch to 'PROG' wait for 2 beeps, enter the required keycode, wait for long beep, keyswitch to 'ON'

7 Enter the programmed keycode at the keypad and check the lock output operates.

8 Add a back up battery (12V 7AH recommended) if required, connect to the Batt+ and Batt- connections on the power supply)

9 Add any additional functions as required.

10 Locate keypad in final position and test.

10.0 THE DIGITAC MP10 ACCESS CONTROL SYSTEM

10.1 DESCRIPTION

The Digitac MP10 is a programmable, digital access control system with the capacity for up to ten different access codes of four to seven digits.

The function of the system is to prevent unauthorised access to a secure area by using the MP10 to operate an electric lock release only when a correct code has been entered at the keyboard or the internal Exit button is operated.

10.2 OPERATION

A person wishing to gain access to the secure area will enter a code at the keyboard adjacent to the entrance. If the code is correct, the release will operate for a preset time and allow access. When the code is incorrect the MP10 will ignore any subsequent key presses until a four second penalty time and subsequent error tone has elapsed. This makes code breaking by trial and error more difficult.

10.3 ADDITIONAL FACILITIES

A. DURESS DIGIT

A preset digit can be entered in place of the last digit of the correct code to initiate an alarm output as well as allowing access. In this manner, someone may be alerted to a problem discretely.

B. ERROR COUNT

This may be set to initiate an alarm output when a preset number of consecutive incorrect code entries has been reached.

C. DOOR MONITORING

A normally closed door contact can be connected to the MP10 which monitors the status of the secure door.

If the Door Monitoring function is to be used the system will function as follows:

When the preset 'door open' (i.e. contact open) time has been reached, an alarm output will be initiated.

If the door is opened without a valid key code being entered an alarm output will be initiated.
The MP10 is supplied with the door monitor terminals 'looped out' to inhibit this function.

The alarm functions are reset by turning the programming key to 'Programme' and back to 'On'

D. EXIT BUTTON

A normally open push switch may be connected to the MP10 which is used to give lock operation from within the secure area. A choice of timed or untimed outputs are available. The untimed output should only be used in conjunction with a failsafe lock configuration.

TIMED CODE OPERATION

An external time switch may be connected and set to inhibit codes of five digits or more at certain times of the day. Four digit codes remain operational regardless of time switch operation.

Settings

Setting Lock Release Time

Keyswitch to 'Programme' LED 2 'ON' two beeps from keypad buzzer.

Enter 2xx (where xx = 01 to 20 Seconds, use both digits) wait for 3 seconds, long beep will confirm the setting has been accepted.

Programme switch to 'ON' if programming finished.

Setting User Codes

Keyswitch to 'Programme' LED 2 'ON' two beeps from keypad buzzer.

Enter user code 4 - 7 digits, the first digit assigns the user position (0 - 9) each user position can only have one code, subsequent code entries with the same start digit will over write the previous code with that start number

i.e. Programme 1234567, followed by programme 10934, 10934 will over write 1234567

To delete a single user code enter the start digit of the user code 3 times

i.e. to delete the user code beginning with 1 enter 111

Programme switch to 'ON' if programming finished.

Setting Door Monitor Time

The Door monitor time is the period of time the door is allowed to be open after the Lock Release Output has switched OFF

Keyswitch to 'Programme' LED 2 'ON' two beeps from keypad buzzer.

Set Door Monitor Time as 3xx (where xx = 01 to 30 Seconds, use both digits)

Programme switch to 'ON' after long beep if programming finished.

To activate the Door open too long alarm output enter 350 in programming mode

Setting Error Count

If the Error Count alarm is to be used set the number of permissible errors as follows:

Keyswitch to 'Programme' LED 2 'ON' two beeps from keypad buzzer.

Enter number of permissible errors as 1xx (where xx = 01 to 10, 1 to 10 errors use both digits)

Programme switch to 'ON' if programming finished.

To activate the Error Count alarm output enter 150 in programming mode

Setting Duress Code

A Duress code can be set to sound an alarm if a user code with a duress code is entered at the keypad.

The Duress code can either be set as a specific last digit or as the last digit of the existing user code + 1

For example:

User code = 27568, duress code set to 4, if the user enters 27564 rather than 27568 the duress alarm output will be activated.

User code = 27568, duress code set to +1, if the user enters 27569 (8+*1*) rather than 27568 the duress alarm output will be activated.

To set the Duress code

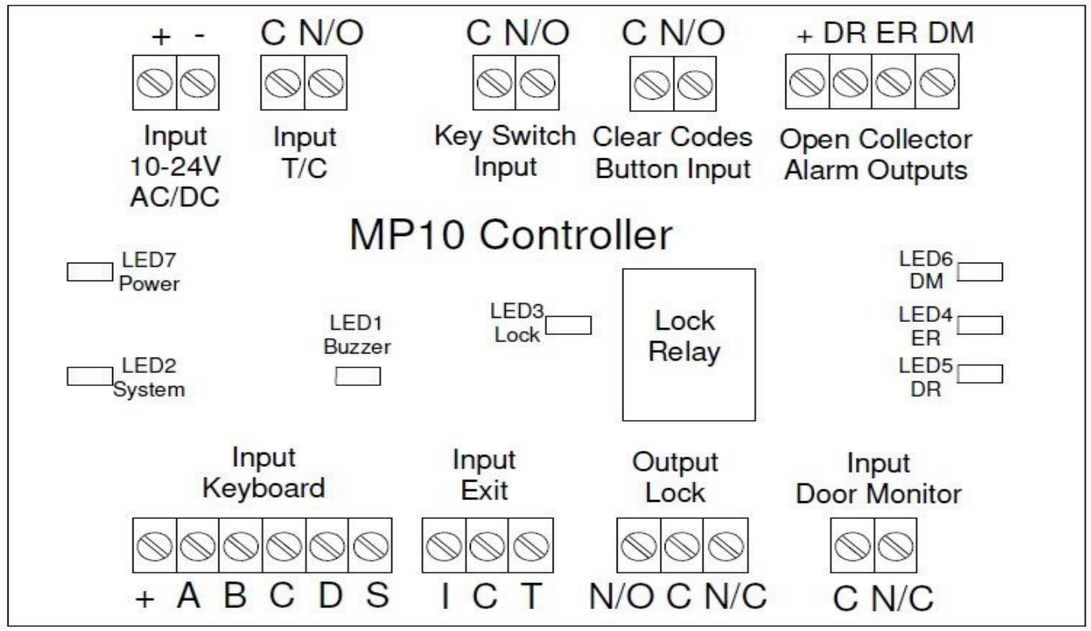
Keyswitch to 'Programme' LED 2 'ON' two beeps from keypad buzzer.

Set the Duress Digit as 4xx (where xx =00 to 09 which is duress digit 0 to 9) alternately enter 498 which will turn the duress alarm output ON if the last digit of the user code is +1

Enter 499 to disable the Duress code Alarm output

If an alarm is initiated it can be cancelled by turning the keyswitch to 'Prog' and back to 'On'

3.0 CONNECTIONS AND INDICATORS



LED 1	Lights while the Keypad buzzer is switched ON
LED 2	Lights briefly once a second (system functioning) ON continuously in 'Programme' mode
LED 3	Lights when the Lock relay is operated
LED 4	Lights when Error Alarm output is triggered
LED 5	Lights when Duress Alarm output is triggered
LED 6	Lights when Door Monitor Alarm output is triggered
LED 7	Lights whilst power is present
Input T/C	Time clock input When time clock contacts are closed only 4 digit codes are active.
Key Switch Input	When this input is closed the MP10 will enter Programming Mode
Clear Codes Button Input	When this input is closed momentarily and the MP10 is in Programming Mode all codes will be reset and all functions will be reset to default.
Keyboard Inputs	Connections to selected keyboard.
Door Monitor Input	Input from Door Monitoring switch, closed when door closed
Exit Input	When C to T is closed the door output relay will be triggered for the time set as the Lock Release time (Timed Request to Exit) When C to I is closed the lock output will be triggered and remain triggered until the connection between I to T is removed (Instantaneous Request to Exit) The instantaneous request to exit input should only be used in conjunction with a failsafe lock configuration.

Replacing 71331

If the 71331P is being used to replace an existing Allgood access controller (71331, 71331N1, 71331N-12) note the following:

71331 Existing exit button connections on the Dig1M should be connected to C and I on the 71331P.
Existing keypad connections on the 71331 should be connected to +ABCDS on the 71331P.
Check which Lock Output connections are being used on the 71331. Check which output voltage is selected and the configuration of links A, B and C. Refer to lock output connections below.

MP1 Existing exit button connections on the MP1 should be connected to the same connections on the MP10.
Existing keypad connections on the MP1 should be connected to +ABCDS on the MP10.
Existing Door monitor contact connections (if used) on the MP1 should be connected to the MP10.

Check the slider switch settings for:

Error Count

Slider Position 0 1 2 3 4 5 6 7 8 9
Error Count off 1 2 3 4 5 6 7 off 1 (MP10 Off to 10 available)

Lock Time

Slider Position 0 1 2 3 4 5 6 7 8 9 A B C D E F
Time (Secs) * 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 (*not used) (MP10 1 to 20 Secs available)

Duress

Slider Position 0 1 2 3 4 5 6 7 8 9 A B C D E F
Duress Number 0 1 2 3 4 5 6 7 8 9 (Last digit +1) off

Door Time

Slider Position 0 1 2 3 4 5 6 7 8 9 A B C D E F
Delay (Secs) off 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 (MP10 Off to 30 Secs available)

Programme the existing settings in to the MP10 if required.

If Alarm outputs are being used on the MP1 add alarm relays (AR-821 recommended) to the MP10 on the outputs being used and use the N/O or N/C contacts on the alarm relay to replicate the connections on the MP1.

Check which Lock Output connections are being used on the MP1 PSU board. Check which output voltage is selected and the configuration of links A, B and C. Refer to lock output connections below.

Lock Output Connections

If clean contacts are being used the lock output of the MP10 can be connected to replicate the clean contacts on the Dig1M or MP1.

If the 12V DC lock output is being used then the MP10 will need to be configured to either use the internal 12V DC power supply or if the load exceeds 1.5A an external 12 V DC PSU.

If the AC lock output is being used then an independent AC power supply will need to be used in conjunction with the clean contacts of the MP10.

If the 24V lock output is being used then an independent 24V DC PSU will need to be used in conjunction with the clean contacts of the MP10.

2.0 FEATURES OF THE 71331P ACCESS CONTROL SYSTEM

2.1 VARIABLE CODE LENGTH

All codes may contain between four and seven digits.

2.2 CODE CAPACITY

The MP10 has capacity for up to ten different, variable length user codes. The codes are distinguished from each other by having a unique first digit (0 - 9)

2.3 TIMED AND 24 HOUR CODE OPERATION

The MP10 can be connected to the clean contacts of a time switch. When the contact is made, four digit codes are recognised but, five, six or seven digit codes are ignored. When the contact is open all valid codes are recognised. In this way different codes can be allocated to different security levels.

2.4 MULTIPLE KEY DETECTION

Simultaneously pressing two or more keys invalidates the entry.

2.5 INCOMPLETE CODE DETECTION

As a code is entered, a code entry timer monitors the keys as they are pressed. If the time between each key press exceeds four seconds, the code entry will be treated as an error.

2.6 INCORRECT CODES

Incorrect codes will be ignored by the controller, if the code is not valid the sounder at the keypad will 'Beep' 3 times to indicate an incorrect code.

2.7 TIMED LOCK OPERATION

Lock operating time is adjustable between one and twenty seconds.

2.8 NON VOLATILE CODE MEMORY

Codes are stored in memory permanently until erased or overwritten.

2.9 ALARM OUTPUTS

Open collector Alarm outputs rated at 100mA maximum are available for:

a. Duress

b. Error Count

c. Door Open Time

2.10 LOCK OUTPUT

The Lock output contacts are voltage free normally open or normally closed contacts rated at a maximum of 7A at 14V DC

2.11 BATTERY BACK UP

The MP10 controller can be backed up via a 12V DC battery to ensure continuity of function if the mains connection is interrupted (The lock will only function on battery back up if the internal 12V DC supply is being used)

3.0 INSTALLATION

3.1 CONTROL UNIT

This should be located on an inside wall within the secure area and suitably supplied with 240V 50Hz AC Mains. If the unit is required to function during mains failure then a back up battery should be connected to the + Batt - terminals on the PSU.

3.2 KEYBOARD

This should be selected from our range to suit the application and securely attached adjacent to the entrance that it controls. The keyboard should be set to MPU. Refer to connection drawings on page 11 for further information.

3.3 ELECTRIC LOCK OR RELEASE

This should be fitted according to manufacturers instructions with suitable suppression. Care should be taken to ensure the installation complies with the relevant statutory regulations.

Default Settings

Door Monitor	Disabled
Error Count	Disabled
Duress Code	Disabled
Door Monitor Time	10 Seconds
Lock Release Time	Timed Input triggered, 5 Seconds
	Instantaneous Input, relay triggered for duration of input