

CM710 - 4 WAY LAN OUTPUT BOARD

The CM710B Relay Output Module can be added to the solution 16i or Solution 16e control panels to increase the number of programmable outputs available on the system. Outputs can be used to operate LED Indicators, Garage Doors, Lighting, Sprinklers, Pumps, Air Conditioning, Door Strikes etc.

Each output includes Normally Open (NO), Normally Closed (NC) and Common (COM) terminals. Figure 1: includes examples showing control of an LED indicator and two door strikes in an access control application.

- 4 x Form C Relay Contacts
- LAN Monitored
- Separate Tamper Input
- Built in Temperature Monitor
- 24V DC @ 2Amp Contact Rating
- Service Keypad Input
- Flash Programmable
- Can be Remotely Controlled

Features


The CM710B module is LAN based, and can be remotely located from the main panel and connected via the 4 wire RS485 system LAN. Each CM710B module must be assigned a unique address using the on-board dip switches.

See the table below for a list of valid module addresses and the corresponding output mappings for each module. Always connect new modules while the system is powered down. The control panel will only recognise new modules after power up.

Programming

Output programming options are fully detailed in the panel Installation and Quick Reference Guides. The following sequence outlines the correct output programming procedure.

- 1) Program the Output Name. Output Names are used to simplify Programming, User Interaction and Reporting.
- 2) Program the Output Event Type. Over 60 different event types are available to suit a variety of application.
- 3) Program the Output Event Assignment.
- 4) Program the Output Polarity.
- 5) Program the Output Time Parameter.
- 6) Program any specific Output options.



You must power cycle the panel after connecting the CM710B for the system to initialise the Output Expander.

Some outputs are set to "Not Used" by default. You must set an appropriate event type for these outputs to operate.

Address Switch Table

Solution 16i Panel				
Switch Number	SW1	SW2	SW3	Output Number
Address 1 =	OFF	OFF	OFF	5 to 8
Only 1 x CM710B can be fitted to the Solution 16i panel				

Solution 16e Panel				
Switch Number	SW1	SW2	SW3	Output Number
Address 1 =	OFF	OFF	OFF	6 to 9
Address 2 =	ON	OFF	OFF	10 to 13
Address 3 =	OFF	ON	OFF	14 to 17
Address 4 =	ON	ON	OFF	18 to 21
Address 5 =	OFF	OFF	ON	22 to 25
Address 6 =	ON	OFF	ON	26 to 29
Address 7 =	OFF	ON	ON	30 to 33
Address 8 =	ON	ON	ON	34 to 37
Up to 8 x CM710 can be fitted to the Solution 16e panel				

CM710B Connection Diagram

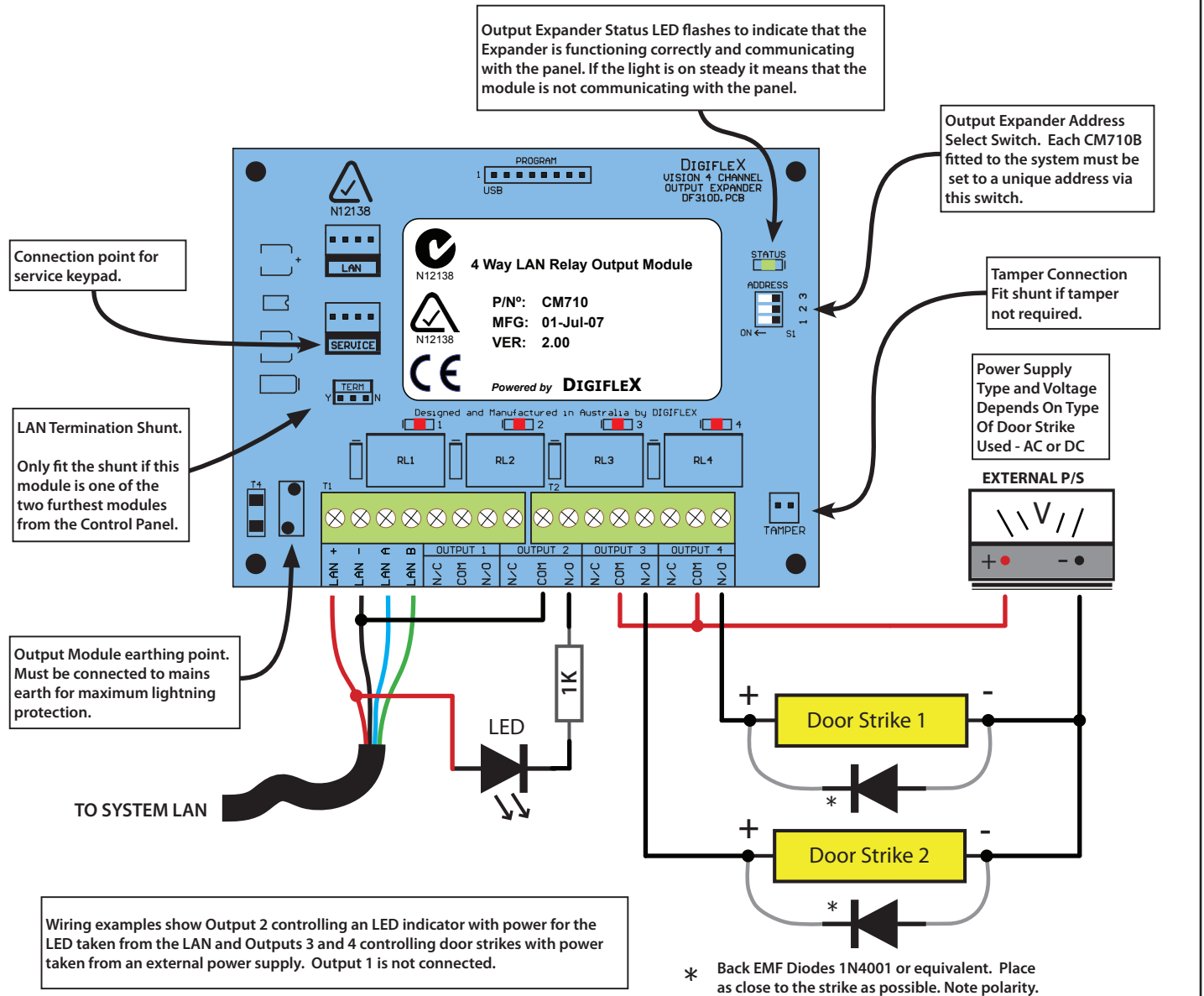


Figure 1: CM710B Connection Diagram



Note When controlling inductive loads such as Door Strikes always install protection diodes as shown. Note the Cathode or marked end of the diode connects to the (+) positive voltage. When using the outputs to switch power from an external power supply you must only connect the negative of the power supply to the negative of the CM710B module (LAN -).

CM710 Specifications

Part Number:	CM710B - 4 Way Relay Output Expander Board
Operating Voltage:	10.5V D.C - 14.0V D.C. @ 30mA Standby Max 200mA (All Relays and LEDs Operated)
Outputs:	4 x Form C Relay outputs - contacts rated at 24V D.C. @ 2A Max
Module Connection: (RS485 LAN)	Max total LAN length using multi strand security cable = 300m , Max total LAN length using 2 pair twisted shielded data cable (Belden 8723) = 1500m. See manual for complete wiring instructions.
Operating Environment:	0° to 55°C RH 5 to 85% at 30°C non-condensing.
Fixing Method:	The CM710B can be mounted in either the MW700 or MW710 enclosures using clip in PCB mounts - supplied.
Warranty:	3 years from date of manufacture (return to base)



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In the interest of ongoing product development this document is subject to change without notice.