Specifications	
Outputs	
Quantity	: 16
Output type	: Open-collector NPN transistor
External supply voltage	: +5V to 80Vdc (maximum)
Current sinking	: 200 mA per channel (maximum)
Leakage current	: 100 µA (maximum)
Protection	: Built-in flywheel diodes for each output
Vc (on)	: 1,8 V dc (maximum) at 200 mA dc
Response time	: 100 μs
Electrical Connections	
Wire Gauge	: 2,0 mm ² (maximum) : 0,5 mm ² with a maximum overall outside diameter of 2mm, is recommended.
Connectors	:Screw terminals. 8 outputs per common. Ribbon header in parallel with screw terminals. Conforms to Standard Omniflex 20-ribbon cable pinouts
Power Supply (from base)	
Supply Voltage	: +5 V dc +12 V dc
Power Consumption	
All outputs on	:4 mA (5 V): 68m a (12 v)
All outputs off	60 mA (5 V); 45 mA (12 V)
Diagnostic Indicators (LEDs)	
16 x O/P (output) (red)	: LED ON = transistor ON
Identification Codes	
Scan Code	:9
Module ID	:7
Environment	
Operating Temperature	: -25°C to +60°C (-13°F to +140°F)
Storage Temperature	: -40°C to +70°C (-40°F to +158°F)
Operating Humidity	: 5% to 95% (non-condensing)
Mass	
Including packaging	: 410g (14,5 oz)
Excluding packaging Ordering Information	: 320g (11,3 oz)
Order Code	: M1341



General Description

The M1341 is a 16-channel output module with open-collector NPN transistor outputs capable of driving 200mA per channel up to 80Vdc. An external power supply is required to power the transistor loads. The M1341 can be inserted or removed while the system is live.

There are 2 differences between the M1341A and M1341B modules:

- 1) The B version has a greater current capacity per channel and,
- 2) It has a 20-way ribbon header in addition to the standard Maxiflex screw terminals for the outputs.

The header is located just behind the terminals and the user may use either. The ribbon header is useful for those systems where the outputs are driving other standard products which conform to the Omniflex ribbon header standard pinout (e.g. Omni-16 displays).

Opto-coupled isolation 1 500 Vrms is provided between the bus and the output circuits. Sixteen red LEDs indicate the status of the outputs. (Transistor ON = LED on/transistor OFF = LED off).

A 2 byte word is written by the Maxiflex CPU to the module where each bit corresponds to one output. Logic "1" turns the transistor on and logic "0" turns it off.

Scan and module identity (ID) codes are used by the CPU for addressing and diagnostics. If the module is removed or becomes faulty, this status will be detected by the CPU immediately, and can be read via the network.

Module Positioning

The M1341 module may only be inserted in one of the I/O positions of the Maxiflex base (clearly marked on base). Any of the bases may be used. Refer to the Maxiflex bases General Instructions leaflet (Part no: 98-8952-930-00X) for more detail on base layout, module insertion and module removal.



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