



MAXIFLEX 16DO Module

Model M1341B 16 Channel NPN Transistor (Sink) Digital Output Module.

DATASHEET



FEATURES

- Fits in any MAXIFLEX base I/O slot
- 16 Solid State Current Sink Open Collector Outputs
- 200mA output current sink capability per channel
- LED Output Indication
- Removable Terminal Blocks or Ribbon Header connectors
- Hot Plug-in
- In system automatic module detection

The M1341B 16DO module provides 16 solid state current sink digital outputs each capable of driving 200mA loads up to 80Vdc. The output circuitry is powered externally from 24Vdc.

The module may be inserted into any I/O slot in a Maxiflex system.

All outputs are opto-isolated from the system logic.

The status of each output is displayed on a 4x4 LED matrix on the front of the module.

Outputs are available either on individual screw terminals or on a twenty way ribbon header. The ribbon header is useful for those applications where these outputs are driving other Omniflex products equipped with the Omniflex standard ribbon header pinout such as the Omni16 annunciators and displays.

The module can be inserted or removed while the system is powered.

Auto-detection capability allows the CPU to recognise the presence of this module in the system.

SPECIFICATIONS

Outputs

Number	16 Digital (On/Off)
Type	Open Collector NPN Transistor (current sink)
Isolation	100% tested to 1500Vac, 50/60Hz for 1 minute - all outputs to logic
Insulation Resistance	1000MΩ min. at 500Vdc
Output Response time	100 microseconds typical
Indication	Red LED on = output transistor on
External Supply Voltage and output load voltage	5Vdc min. 60Vdc max.
Load current per channel	200mA max
Output leakage current (per output when off)	100μA max
Output volt drop when on	1.8Vdc max at 200mA
Over-voltage Protection	"Flywheel" diode on each output
Over-current Protection	Short duration short circuit protected

Output Termination

Types	Screw clamp Plug-in Terminal Blocks and 20 way ribbon header
Screw Terminal Wire Size	2.0mm ² maximum For manageable wiring to the module, 0.5 mm ² is recommended with 2mm overall outside diameter

Environmental

Operating Temperature	-25°C to +60°C (-13°F to +140°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	95% max. at 40°C (104°F) non-condensing.
Protection	Electronics conformally coated

Logic Power Consumption

From Logic Power Supply	60mA from 5Vdc max. 68mA from 12Vdc max 0.9W max overall
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Auto Identification Codes

Module ID	7
Scan Code	9

Mass

Excluding Packaging	320g (11.3oz)
Including Packaging	410g (14.5oz)

Ordering Information

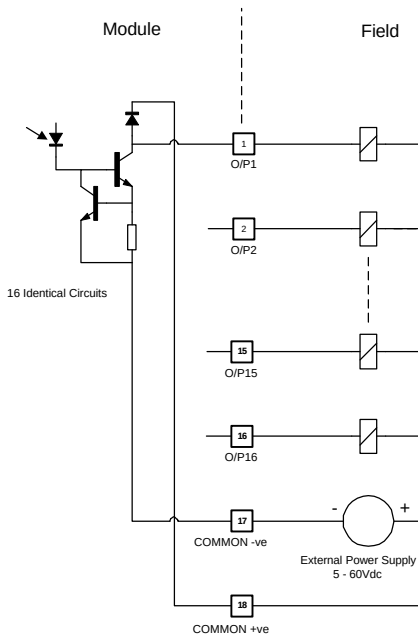
Model	Order Code
16DO	M1341B



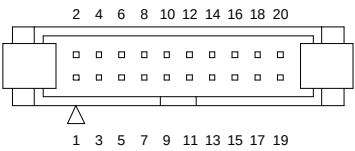
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ELECTRICAL CONNECTION



Screw Terminal Connections

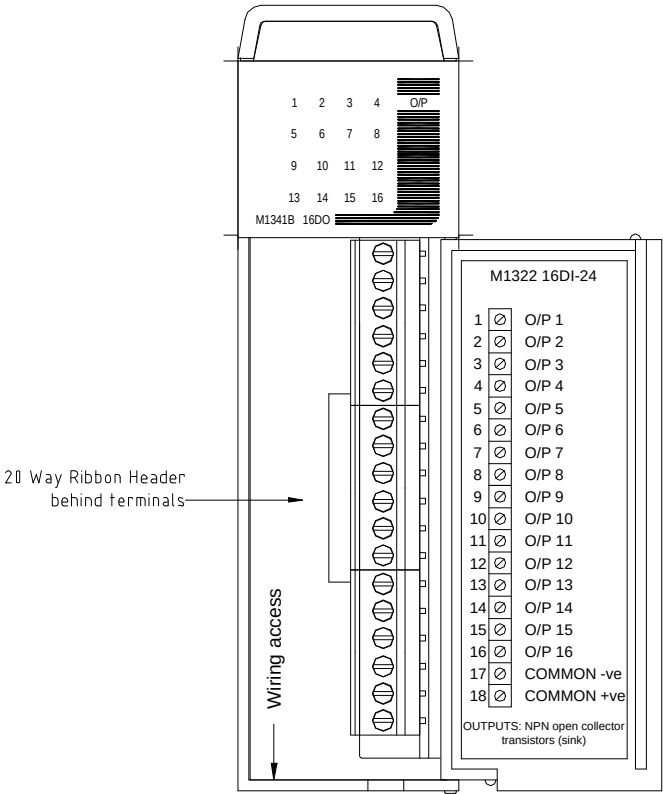


Ribbon Header Pin Layout

Pin No.	Description
1	0 Volts
2	0 Volts
3	24 Volts
4	24 Volts
5	Output 16
6	Output 15
7	Output 14
8	Output 13
9	Output 12
10	Output 11
11	Output 10
12	Output 9
13	Output 8
14	Output 7
15	Output 6
16	Output 5
17	Output 4
18	Output 3
19	Output 2
20	Output 1

Ribbon Header Connections

MECHANICAL CONFIGURATION



Note: The LED indicators can only be seen when illuminated.