



MAXIFLEX 32DO Module

Model M1342A 32 Channel NPN Transistor (Sink) Digital Output Module.

DATASHEET



FEATURES

- Fits in any MAXIFLEX base I/O slot
- 32 Solid State Current Sink Open Collector Outputs
- 100mA output current sink capability per channel
- 2 off 20 way Ribbon Header connectors
- Hot Plug-in
- In system automatic module detection

The M1342 32DO module provides 32 solid state current sink digital outputs each capable of driving 100mA loads on a 24Vdc supply. The output circuitry is powered externally from the 24Vdc.

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

All outputs are opto-isolated from the system logic.

Outputs are available on two twenty way ribbon headers. These ribbon headers are compatible with the

recommended C6320 DIN-rail mounted Termination Board as well as 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	32 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	5 milliseconds typical
Indication	Green module OK LED. (Individual channel indication on C6320 Termination Board.)
External Supply Voltage and output load voltage	18-30Vdc
Load current per channel	80mA max
Output leakage current (per output when off)	100μA max
Output volt drop when on	1Vdc max at 80mA
Over-voltage Protection	"Flywheel" diode on each output to +24V supply.
Over-current Protection	None

Output Termination

Type	Two 20 way 1.27mm pitch insulation displacement ribbon cable headers
------	--

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

Power Consumption

From Logic Power Supply	50mA from 5Vdc max. 0mA from 12Vdc
From +24Vdc Power Supply	25mA max excluding loads

Auto Identification Codes

Module ID	?
Scan Code	?

Mass

Excluding Packaging	232g (8.2oz)
Including Packaging	320g (11.3oz)

Ordering Information

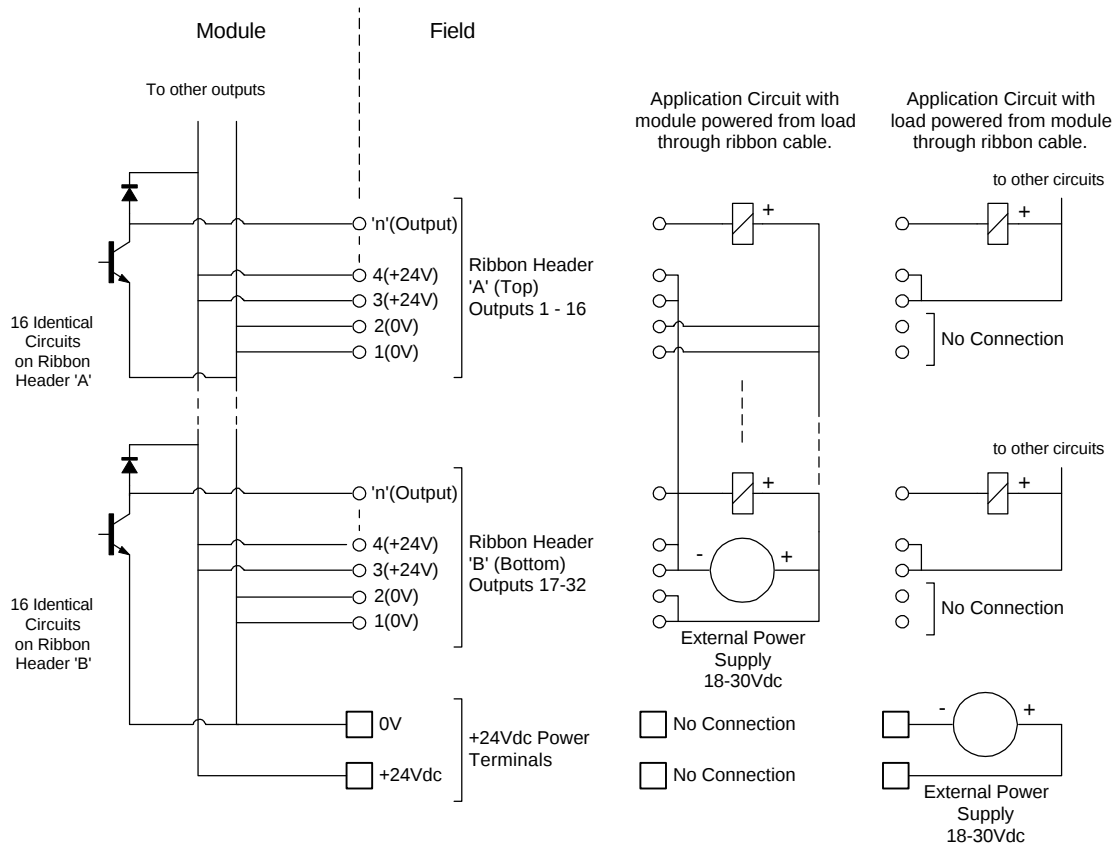
Model Name	Order Code
Maxiflex 32DO Module	M1342A



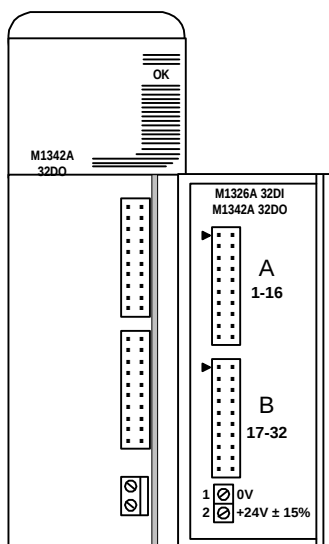
MAXIFLEX 32DO Module

Model M1342A 32 Channel NPN Transistor (Sink) Digital Output Module.

ELECTRICAL CONNECTIONS

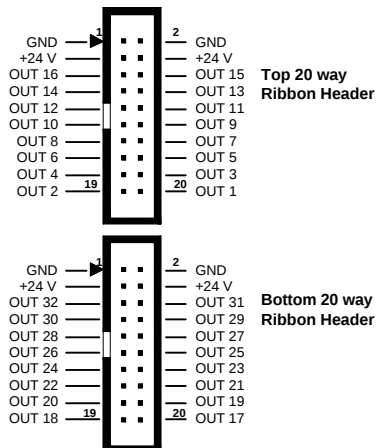


MODULE LAYOUT



RIBBON CABLE HEADER PINOUT

Ribbon Header Pinouts



Pin No.	Header 'A' Description	Header 'B' Description
1	0 Volts	0 Volts
2	0 Volts	0 Volts
3	24 Volts	24 Volts
4	24 Volts	24 Volts
5	Output 16	Output 32
6	Output 15	Output 31
7	Output 14	Output 30
8	Output 13	Output 29
9	Output 12	Output 28
10	Output 11	Output 27
11	Output 10	Output 26
12	Output 9	Output 25
13	Output 8	Output 24
14	Output 7	Output 23
15	Output 6	Output 22
16	Output 5	Output 21
17	Output 4	Output 20
18	Output 3	Output 19
19	Output 2	Output 18
20	Output 1	Output 17