MAXIFLEX 8DI8RO Module



Model M1330 8 Way Digital I/O Module (8 x 9-30Vdc Inputs; 8 x Relay Outputs).

DATASHEET



FEATURES

- Fits in any MAXIFLEX base I/O slot
- 8 Digital Inputs and 8 Relay Contact Outputs
- 9-30Vdc input voltage range
- LED Input/Output Indication
- Inputs electrically isolated from Outputs
- Positive or Negative Common Supply (ie source or sink)
- Removable Terminal Blocks
- Hot Plug-in
- In system automatic module detection

The M1330A 8DI8RO module accept 8 digital inputs powered externally from either a positive or negative common circuit, and provides 8 Relay outputs. The inputs are electrically isolated from the outputs to allow them to be used in separate electrical circuits.

All inputs are opto-isolated from the system logic.

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

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

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

SPECIFICATIONS

Nominal Input Voltage 24Vdc Nominal Input Current 5mA at 24Vdc Guaranteed On Voltage 9 – 30Vdc Input Current at 24Vdc 3mA Input Current over voltage range 1.5 – 8mA Guaranteed Off Voltage < 4.5Vdc Guaranteed Off Current < 0.3mA Maximum Voltage between inputs and Outputs 250Vac Outputs Number and Type 8 Normally Open Relay Contacts Dielectric Strength 3000Vac 50/60Hz coil to contacts Isolation Test 100% tested to 1500Vac, 50/60Hz for 1 minute – all outputs to logic Insulation Resistance 1000MΩ min. at 500Vdc Relay operate time 10 milliseconds typical Indication Red LED on = Relay energised Maximum switching current 2 Amps per output 5 Amps total per module Maximum switching capacity 1250VA or 150W for resistive load. 500VA or 60W for inductive load with L/R < 7ms (L=load inductance in	Inputs	
Inputs to logic Insulation Resistance 1000MΩ min. at 500Vdc Input Response 15ms typical Indication Green LED on = input contact closed Nominal Input Voltage 24Vdc Nominal Input Current 5mA at 24Vdc Guaranteed On Voltage 9 – 30Vdc Input Current at 24Vdc 3mA Input Current over voltage range Input Current over voltage 1.5 – 8mA Input Current over voltage 4.5Vdc Guaranteed Off Voltage 4.5Vdc Guaranteed Off Current 4.5Vdc Guaranteed Off Current 4.5Vdc Guaranteed Off Current 4.5Vdc Guaranteed Off Current 4.5Vdc 4.5	Number and Type	8 Digital (On/Off)
Input Response Indication Indication Indication Input Voltage Indication Input Current Input Current Input Current Input Current Input Current Input Current at 24Vdc Input Current at 24Vdc Input Current over voltage Input Current over v	100.00.0	
Indication Nominal Input Voltage Nominal Input Current SmA at 24Vdc Guaranteed On Voltage Input Current at 24Vdc Input Current over voltage range Guaranteed Off Voltage Guaranteed Off Current Maximum Voltage between inputs and Outputs Outputs Number and Type Dielectric Strength Isolation Test Isolation Resistance Relay operate time Relay release time Indication Maximum switching capacity Maximum switching capacity Green LED on = input contact closed 24Vdc 34Vdc 34Vdc 35MA 1.5 – 8mA 250Vac 350Vac 350Va	Insulation Resistance	1000MΩ min. at 500Vdc
Nominal Input Voltage 24Vdc Nominal Input Current 5mA at 24Vdc Guaranteed On Voltage 9 – 30Vdc Input Current at 24Vdc 3mA Input Current over voltage range 1.5 – 8mA Guaranteed Off Voltage < 4.5Vdc	Input Response	15ms typical
Nominal Input Current 5mA at 24Vdc Guaranteed On Voltage 9 – 30Vdc Input Current at 24Vdc 3mA Input Current over voltage range 1.5 – 8mA Guaranteed Off Voltage < 4.5Vdc	Indication	Green LED on = input contact closed
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range Guaranteed Off Voltage Guaranteed Off Current Maximum Voltage between inputs and Outputs Outputs Number and Type Belay Contacts Dielectric Strength Joow tested to 1500Vac, 50/60Hz for 1 minute – all outputs to logic Insulation Resistance Relay operate time Relay release time Indication Red LED on = Relay energised Maximum switching current Maximum switching capacity Maximum switching capacity Maximum switching capacity Tooman Australia Austral	Input Current at 24Vdc	3mA
Guaranteed Off Current < 0.3mA	,	1.5 – 8mA
Maximum Voltage between inputs and Outputs 250Vac Outputs 8 Normally Open Relay Contacts Number and Type 8 Normally Open Relay Contacts Dielectric Strength 3000Vac 50/60Hz coil to contacts Isolation Test 100% tested to 1500Vac, 50/60Hz for 1 minute – all outputs to logic Insulation Resistance 1000MΩ min. at 500Vdc Relay operate time 10 milliseconds typical Relay release time 10 milliseconds typical Indication Red LED on = Relay energised Maximum switching current 2 Amps per output 5 Amps total per module Maximum switching capacity 1250VA or 150W for resistive load. 500VA or 60W for inductive load with L/R < 7ms (L=load inductance in	Guaranteed Off Voltage	< 4.5Vdc
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Indication Red LED on = Relay energised Maximum switching current 2 Amps per output 5 Amps total per module Maximum switching capacity 1250VA or 150W for resistive load. 500VA or 60W for inductive load with L/R < 7ms (L=load inductance in	Relay operate time	10 milliseconds typical
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5 Amps total per module Maximum switching capacity 1250VA or 150W for resistive load. 500VA or 60W for inductive load with L/R < 7ms (L=load inductance in	Indication	Red LED on = Relay energised
500VA or 60W for inductive load with L/R < 7ms (L=load inductance in	Maximum switching current	
henry's and R=load resistance in ohms)	Maximum switching capacity	500VA or 60W for inductive load with L/R < 7ms (L=load inductance in henry's and R=load resistance in

Open Circuit Voltage	250Vac, 125Vdc maximum	
Minimum Load	5Vdc 10mA	
Contact Resistance	30milliohms maximum	
Operating Frequency	1800 operations/hour under full load	
Service Life	300 000 operations at 2A resistive 100 000 operations at 2A inductive (see inductive load spec. above)	
Input/Output Termination		
Terminal Type	Screw clamp Plug-in Terminal Blocks	
Wire Size	2.0mm² maximum For manageable wiring to the module, 0.5 mm² is recommended	
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	140mA from 5Vdc 150mA from 12Vdc (with relays energised)	
Auto Identification Codes		
Module ID	3	
Scan Code	10	
Mass		
Excluding Packaging	270g (9.6oz)	
Including Packaging	360g (12.7oz)	
Ordering Information		
Description	Order Code	
Maxiflex 8DI8RO Module	M1330A	
Maxillex obloro Module	WITSSUA	



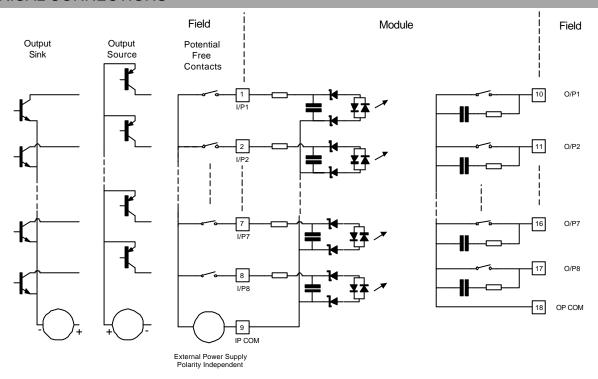


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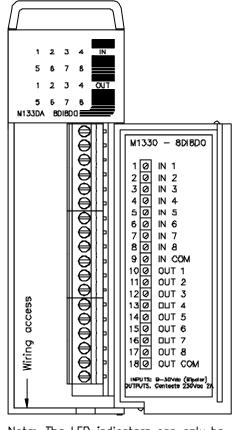


Model M1330 8 Way Digital I/O Module (8 x 9-30Vdc Inputs; 8 x Relay Outputs).

ELECTRICAL CONNECTIONS



MECHANICAL CONFIGURATION



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



