

# 16 Optically Isolated Input / 16 Open-Collector Output Seal/O Expansion Module

Part: 530N | Model: Seal/O-530N

The Seal/O-530N adds 16 optically isolated inputs and 16 open-collector outputs to your Seal/O network. Compatible with all Seal/O base units (Ethernet, USB, RS-485, RS-232), the Seal/O-530N connects easily using an RS-485 input. Cabling is accomplished via the units RJ45 connector or removable screw terminals. RS-485 line conditioning allows easy installation of termination and pull-up/pull-down resistors.

All Seal/O N-series expansion modules ship with an expansion and strap kit that includes four metal straps, four #4-40 screws, and a 5" RJ45 RS-485 interconnect cable. The metal straps allow you to connect multiple Seal/O modules together in a stack. The interconnect cable can be used to connect Seal/O modules together via the RJ45 pass-through connectors, providing an easy method to cascade RS-485 signals and power from one module to the next. Alternatively, use inexpensive CAT5 cabling to pass data signals between Seal/O modules to create a distributed network.



## **Features & Specifications**

## 16 Optically Isolated Input / 16 Open-Collector Output Seal/O Expansion Module

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#### **Features**

- Quick connection to Seal/O devices using RJ45 connector or removable screw terminals
- 16 optically isolated inputs
- 16 open collector outputs
- · Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- · Optional DIN rail or table mount
- Includes expansion and strap kit (item# KT122)

#### **Specifications**

Family       Seal/O         Digital I/O       Isolated Inputs, Reed Relay Output         Dimensions       7.5 (L) x 5.1 (W) x 1.3 (H)         Extended Temperature       Call for Options         Humidity Range       10 − 90% Relative Humidity, Non-Condensing         Input Isolation       2500 VAC RMS, 3500 VDC         Input Impedance       6.2 K Ohms (in series)         Number of Inputs/Outputs       16 Inputs / 16 Outputs         Operating Temperature       -25°C to 85°C (-13°F to 185°F)         Output Dissipation       Max. 1000mA (single), Max. 2000mA (port)         Output Isolation       2500VAC RMS, 3500VDC         Output Power       DC 60W max.         Output Voltage       Max. 60VDC         # of Ports       16/16         Power Requirement       9-30 VDC @ 1.4W         RoHS Compliant       Yes         Storage Temperature       -50°C to 105°C (-58°F to 221°F)		
Dimensions 7.5 (L) x 5.1 (W) x 1.3 (H)  Extended Temperature  Humidity Range 10 - 90% Relative Humidity, Non-Condensing 2500 VAC RMS, 3500 VDC  Input Isolation 2500 VAC RMS, 3500 VDC  Input Impedance 6.2 K Ohms (in series)  Number of Inputs/Outputs  Operating Temperature -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Dissipation  Output Isolation 2500VAC RMS, 3500VDC  Output Power DC 60W max.  Output Type Open-Collector  Output Voltage Max. 60VDC  # of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  ROHS Compliant Yes  -50°C to 105°C (-58°F to 221°F)	Family	Seal/O
Extended Temperature  Humidity Range  10 - 90% Relative Humidity, Non-Condensing  Input Isolation  2500 VAC RMS, 3500 VDC  Input Range  5-30 VDC  Input Impedance  6.2 K Ohms (in series)  Number of Inputs/Outputs  Operating Temperature  -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Dissipation  Output Isolation  2500VAC RMS, 3500VDC  Output Power  DC 60W max.  Output Type  Open-Collector  Output Voltage  # of Ports  16/16  Power Requirement  9-30 VDC @ 1.4W  RoHS Compliant  Yes  Storage	Digital I/O	Isolated Inputs, Reed Relay Output
Temperature  Humidity Range  10 - 90% Relative Humidity, Non- Condensing  Input Isolation  2500 VAC RMS, 3500 VDC  Input Impedance  6.2 K Ohms (in series)  Number of Inputs/ Outputs  Operating Temperature  -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Isolation  Output Power  DC 60W max.  Output Type  Open-Collector  Output Voltage  # of Ports  Amax. 60VDC  # of Ports  16/16  Power Requirement  9-30 VDC @ 1.4W  RoHS Compliant  Yes  Storage  -50°C to 105°C (-58°F to 221°F)	Dimensions	7.5 (L) x 5.1 (W) x 1.3 (H)
Input Isolation 2500 VAC RMS, 3500 VDC  Input Range 5-30 VDC  Input Impedance 6.2 K Ohms (in series)  Number of Inputs/Outputs 16 Inputs / 16 Outputs  Operating Temperature -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Isolation 2500VAC RMS, 3500VDC  Output Power DC 60W max.  Output Type Open-Collector  Output Voltage Max. 60VDC  # of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  Storage -50°C to 105°C (-58°F to 221°F)		Call for Options
Input Range 5-30 VDC  Input Impedance 6.2 K Ohms (in series)  Number of Inputs/Outputs 16 Inputs / 16 Outputs  Operating Temperature -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Isolation 2500VAC RMS, 3500VDC  Output Power DC 60W max.  Output Type Open-Collector  Output Voltage Max. 60VDC  # of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  Storage -50°C to 105°C (-58°F to 221°F)	Humidity Range	
Input Impedance  Number of Inputs/ Outputs  Operating Temperature  Output Dissipation  Output Isolation  Output Power  Output Type  Output Voltage  # of Ports  Output Power  Power Requirement  Storage  -50°C to 105°C (-58°F to 221°F)  As. 1000mA (single), Max. 2000mA (single), Max. 2000mA (port)  DC 60W max.  Open-Collector  Max. 60VDC  # of Ports  Output Voltage  -50°C to 105°C (-58°F to 221°F)	Input Isolation	2500 VAC RMS, 3500 VDC
Number of Inputs/ Outputs  Operating Temperature  Output Dissipation  Output Isolation  Output Power  Output Type  Output Voltage  # of Ports  Output Power  # of Ports  Storage  Output Yes  Storage  Output Yes  Storage  Output Yes  16 Inputs / 16 Outputs  As 35°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  DC 60W Max. 3500VDC  DC 60W max.  Output Type  Open-Collector  Max. 60VDC  # of Ports  16/16  Power Requirement  9-30 VDC @ 1.4W  Yes  -50°C to 105°C (-58°F to 221°F)	Input Range	5-30 VDC
Outputs Operating Temperature  -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Isolation  Output Power  Output Power  Output Type Open-Collector  Output Voltage  # of Ports  16/16  Power Requirement  Power Requirement  Storage  -50°C to 105°C (-58°F to 221°F)	Input Impedance	6.2 K Ohms (in series)
Temperature  -25°C to 85°C (-13°F to 185°F)  Max. 1000mA (single), Max. 2000mA (port)  Output Isolation  2500VAC RMS, 3500VDC  Output Power  DC 60W max.  Output Type  Open-Collector  Max. 60VDC  # of Ports  16/16  Power Requirement  9-30 VDC @ 1.4W  RoHS Compliant  Yes  -50°C to 105°C (-58°F to 221°F)		16 Inputs / 16 Outputs
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Output Power  Output Type Open-Collector  Output Voltage Max. 60VDC  # of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  -50°C to 105°C (-58°F to 221°F)	Output Dissipation	, - ,
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Output Voltage Max. 60VDC  # of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  Storage -50°C to 105°C (-58°F to 221°F)	Output Power	DC 60W max.
# of Ports 16/16  Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  Storage -50°C to 105°C (-58°F to 221°F)	Output Type	Open-Collector
Power Requirement 9-30 VDC @ 1.4W  RoHS Compliant Yes  Storage -50°C to 105°C (-58°F to 221°F)	Output Voltage	Max. 60VDC
RoHS Compliant  Yes  Storage -50°C to 105°C (-58°F to 221°F)	# of Ports	16/16
Storage -50°C to 105°C (-58°F to 221°F)	Power Requirement	9-30 VDC @ 1.4W
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