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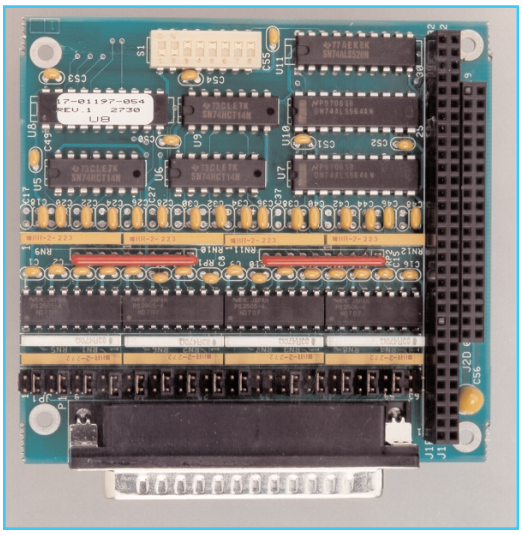
Find the *Comark 43939* at our website: ***Click HERE***

0-30 VOLT AC/DC PC/104 INPUT MODULE

PC/104 0-30VI

FEATURES

- 16 Channel Input
- 0 - 30 Volt Input Range (AC or DC Inputs)
- Isolation Optocouplers
- User-Selectable Address
- DB37P Input Connector
- Separate Channel Filters
- Dual 8-Bit Data Buffers Readable in 8 or 16-Bit Format
- Can be Configured for Fast Response DC or AC Inputs
- Inputs Non-Polarity Sensitive
- AC and DC Inputs can be Mixed
- Inputs Can be “Wetted” or Grounded On-Board Individually



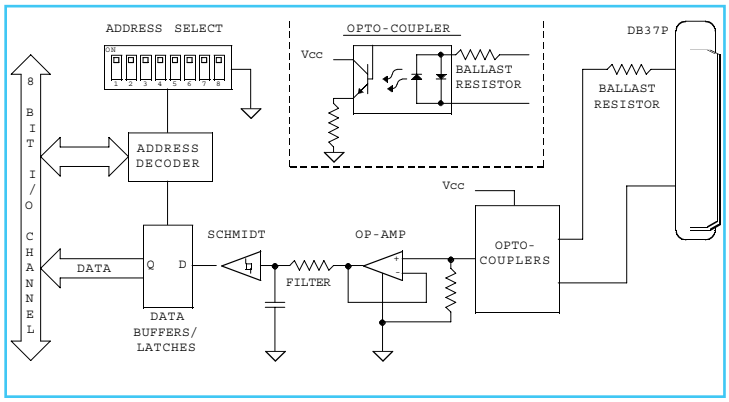
DESCRIPTION

The PC/104 0-30VI module is an optically isolated, sixteen channel input interface, engineered for sensing, automation and control applications. The module is designed to operate with inputs of 0 to 30 volts AC or DC. Inputs can be mixed between AC and DC on one board and the inputs are not polarity sensitive. Direct current sensor outputs driven from standard 12/24 VAC control transformers are easily handled. The heart of the PC/104 0-30VI is the input optocouplers with gallium arsenide, dual diode, infrared sources, connected in an inverse parallel configuration, coupled to a silicon NPN photo-transistor. This features high electrical isolation (2.5kV RMS), and high speed switching, typically on the order of four msec. (10 msec. max). Also featured on the PC/104 0-30VI input interface is a user selectable address switch, standard DB37 input connector, dual eight bit data buffers, and low pass filter circuitry for use with 50 - 70 Hz AC signals, or to eliminate spurious voltage spikes which may give rise to false input signals. The filter may be removed to allow for faster response DC sensing applications. The 16-channels of data can be read in (2) 8-bit bytes or (1) 16-bit word.

INPUT OPTOCOUPLER

- Dual infrared Gallium Arsenide Diodes coupled to a silicone NPN photo-transistor
- High Voltage Electrical Isolation: 5kV RMS
- High Speed Switching: 20 usec without filters

BLOCK DIAGRAM



ORDERING GUIDE

54-43939-001	PC/104 0-30VI,16CH,20-30V ISOL Input
54-43939-002	PC/104 0-30VI,16CH,10-20V ISOL Input
54-43939-003	PC/104 0-30VI,16CH,TTL ISOL Input
54-43939-011	PC/104 0-30VI,16CH,20-30V ISOL Input, with AC FILTER
54-43939-012	PC/104 0-30VI,16CH,10-20V ISOL Input, with AC FILTER
54-43939-013	PC/104 0-30VI,16CH,TTL ISOL Input, with AC FILTER

SPECIFICATIONS

Size: 3.78”Lx3.55”Wx.60”H (96mm x 90mm x 15mm)
Weight: 4 oz. (113 g)
Environment:
Operation:
Temperature: 0 - 50°C (32 - 122°F)
Shock: 10G, 11ms, 1/2 sine
Vibration: 1.5G, 10 - 150Hz, .75cm amplitude
Humidity: 95% RHNC
Altitude: 10000 ft.
Storage: -10 - +65°C (14 - 149°F)
Electrical:
Power: +5V @ 125mA

Doc # 43939 Rev A Specifications subject to change without notice. Contact COMARK for current pricing.

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