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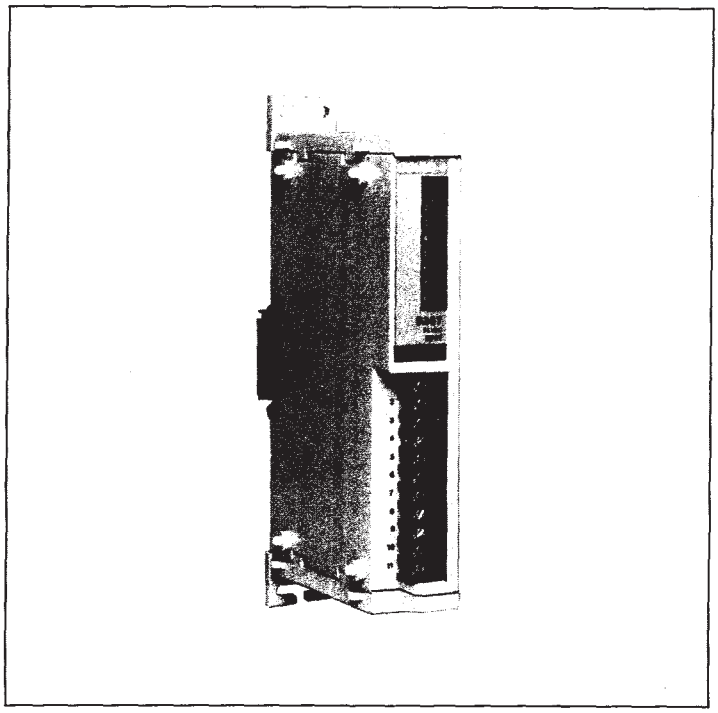
Find the *Schneider Electric / Gould B357* at our website: *Click HERE*

B357-001 / 24 VDC Input Module (True High)
DATA SHEET

The Gould B357-001, 24 VDC Input Module senses and converts 24 VDC switched input signals into logic voltage levels used by the *Micro 84™* Controller.

FEATURES

- Eight independent 24 VDC inputs
- Circuit isolation of 1500 VAC
- Field side status indicators
- Transient protection
- Surge withstand capability in compliance with IEEE 472-1974 and ANSI C37.90A
- Optional Fanning Strip permits module removal without disturbing field wiring
- UL listed
- Designed for harsh plant floor environments



GENERAL DESCRIPTION

The Gould B357-001, 24 VDC Input Module senses and converts switched input signals into logic voltage levels used by the *Micro 84* Controller. The logic format for the module is "true high". Inputs can be received from push buttons, limit and proximity switches, termperature and pressure switches, as well as other 24 VDC sources. Eight independent threshold switches sense inputs from an external power source.

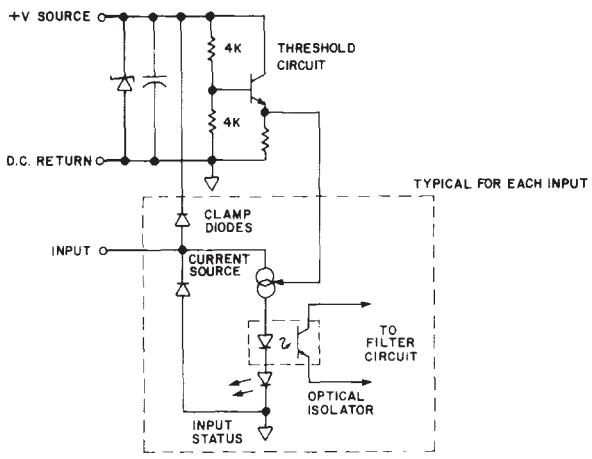
Each input is electrically isolated by an optical coupler. An LED indicator connected to the circuit's field side displays the true ON/OFF state of the input. Both the IEEE and ANSI standards for surge withstand capability (SWC) tests are fully satisfied. This enables the module and controller to withstand severe voltage transients prevalent in industrial environments.

The module is housed in a light weight, durable LEXAN case. A structural "chimney" within the module provides flow-through convection cooling and protection from moisture build-up. Self-contained mounting brackets eliminate the need for special I/O housings. A termination connector is shipped with the *Micro 84* mainframe to be used when the module is attached to the extreme right bus location.

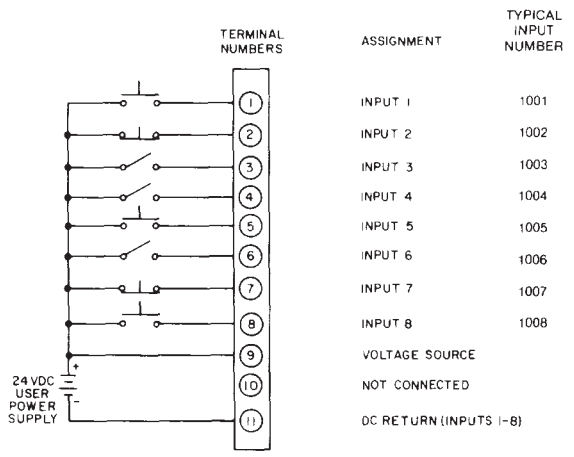
User connections are made to a standard screw terminal strip. This strip is compatible with an optional Fanning Strip (P/N 0212-012) which allows quick module replacement without disturbing field wiring. Data bus connections are made with standard interface connectors. These connectors allow the B357 Input Module to be placed in any location in the I/O structure without interfering with other module operation.

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B357-001 INPUT MODULE
SIMPLIFIED SCHEMATIC



B357-001 INPUT MODULE
TERMINAL NUMBERING AND CONNECTIONS

SPECIFICATIONS

Electrical Characteristics

OFF Level	Less than 30% of V source
ON Level	Greater than 70% of V source
Source Resistance	1000 ohm (max) at 10 VDC
Threshold Voltage	30-70% of V source
Max Input Voltage	50 VDC, 10 ms
V Source Range	18 to 30 VDC

Module Characteristics

Topology	8 inputs per module, true high
Isolation Voltage	1500 VDC for 10 sec.
Response Time	ON to OFF, 12 ms (max) OFF to ON, 12 ms (max)
Visual Indicators	One LED indicator per input ON when input is ON (high)
External Power Supply	24 VDC at 100 mA (max)
Surge Withstand Capability	Per IEEE 472-1974 and ANSI C37.90A (2500V decaying in 6 μs)

Physical Characteristics

Environment

Temperature	0 to 60°C (ambient)
Humidity	0 to 95% (non-condensing)
Shock	10 G for 11 ms
Vibration	0.625 G, 50-500 Hz
EMI	Per MIL-STD 461B
RFI	Per FCC Class A
Dimensions (W x H x D)	1.62 in x 6.00 in. x 11.00 in (41.8 mm x 152.4 mm x 279.4 mm)
Weight	2.0 lbs (0.91 kg)

NOTES

The B357-001 Input Module is compatible with the B356-001 Output Module without the use of additional components.

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