Model 3471-AlB

24-bit Isolated Input Gate

INSTRUCTION MANUAL

February, 1987

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SPECIAL OPTION

Model 3471-S003

July 1981

Special Option

Model 3471-S003

The 3471-S003 is a 3473-AlB with no input filter.

2 July 1981

24-bit Isolated Input Gate

Provides optical isolation with 12 V dc to 120 V ac options

3471

Features

- 24-bit voltage sense
- · Optical isolation
- 120 VAC input
- 12, 24, and 48 VDC input available
- 100 millisecond filter
- Versatile multipurpose input

Typical Applications

- Contact sense
- Data input
- · Level detectors
- Alarms
- · Manual switch entry
- · Pressure switches
- · Auxiliary contacts

General Description (Product specifications and descriptions in this document subject to change without notice.)

The 3471 is a single-width CAMAC module providing 24 individually isolated contact sense circuits. The sense circuit detects the presence or absence of voltage at its terminals and is suitable for sensing such remote process contact closures as limit switches, machine tool relay contacts, pressure switches, manual switches, and mercury-wetted contacts. Four voltage options are available: 12 VDC, 24 VDC, 48 VDC, and 120 VAC.

Input isolation is achieved by using LED/phototransistor optical isolators. Each circuit is a floating two-wire circuit with common-mode voltage isolation greater than 500 volts. Each option has 24 circuits with identical input voltage ratings, and the switching threshold is approximately one half the rated input voltage. Each input circuit draws between five and ten milliamperes.

The logic convention is such that a contact closure (input voltage present) is interpreted as a logical "1".

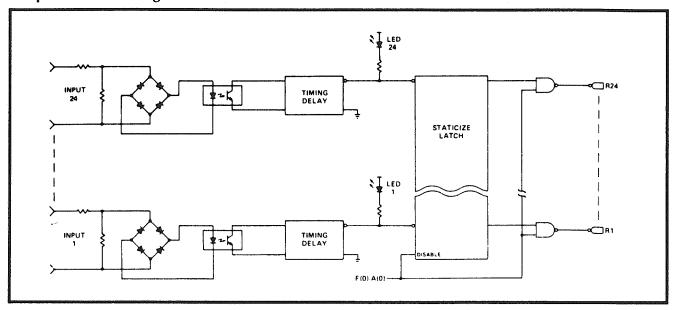
Each input is conditioned by filtering after the optical isolator. The filter time constant is 100 milliseconds. Other time constant options are available by special order.

Function Codes

Command		Q	Action	
F(0)·A(0)	RD1	1	Reads the current state of the inputs.	
F(1)·A(15)	RD2	1	Reads the module identifying number (3471 = 6617 ₈).	
Note: X = 1 fo	r all valid a	ddressed commar	nds.	



Simplified Block Diagram



Power Requirements

+6 volts:

450 mA

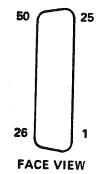
Ordering Information

Model 3471-A1AIsolated Input Gate, 120 Vac, 24 bits, 50S Amphenol Ribbon connectorModel 3471-A1BIsolated Input Gate, 48 Vdc, 24 bits, 50S Amphenol Ribbon connectorModel 3471-A1CIsolated Input Gate, 24 Vdc, 24 bits, 50S Amphenol Ribbon connectorModel 3471-A1DIsolated Input Gate, 12 Vdc, 24 bits, 50S Amphenol Ribbon connectorModel 3471-A1EIsolated Input Gate, contact input, 24 bits, 50S Amphenol Ribbon connector

Related Products

Model 5950-Z1A Mating Connector
Model 1850-A1D Rack Termination Panel

Socket/Wire List



50 SOCKET RIBBON CONN.

SOCKET	<u>10.</u>	SOCKET N	<u>o</u> .
50 _		25 _	
49 _	Input Signal 24B	24	Input Signal 24A
48 _	· 23B	23	23A
47 _	22B	22	22A
46 _	21B	21	21A
45 _	20.B	20	20A
44 _	19B	19	19A
43	18B	18	18A
42 _	17B	17	17A
41	16B	16	16A
40 _	15B		15A
39 _	14B	14	14A
38	13B	13	13A
37	12 B	12	12A
36	11B		11A
35	10B		10A
34	9в	9	9A
33	8B	8	8A
32	7B	_ 7	7A
31	6B	6	6A
30	5B	5	5A
29	4B		4A
28	3B	_ 3	. 3A -
27	2 B	_ 2	2A
26	18	_ 1	. 1A

50 CONDUCTOR

(26 Pair)

EXTERNAL CABLE COLOR CODE

Conn.		1
No.	Pair	Color
26	1	W-Bl
1		Bl-W
27	2	W-O
2		O-W
28	3	W-G
3	.	G-W
29	4	W-Br
4	7	Br-W
30	5	W-Sl
5	.	S1-W
31	6	R-Bl
6		Bl-R
32	7	R-O
7		O-R
33	8	R-G
8		G-R
34	9	R-Br
9		Br-R
35	10	R-SI
10	10	SI-R
36	11	Bk-Bl
11		Bl-Bk
37	12	Bk-O
12	16	O-Bk

38	13	Bk-G
13	13	G-Bk
39	14	Bk-Br
14		Br-Bk
40	15	Bk-Sl
15		SI-Bk
41	16	Y-Bl
16	10	Bl-Y
42	17	Y-O
17	2.1	O-Y
43	18	Y-G
18	10	G-Y
44	19	Y-Br
19	19	Br-Y
45	20	Y-SI
20	20	Sl-Y
46	21	V-Bl
21	41	Bl-V
47	22	V-0
22		0-V
48	23	٧-G
23		G-V
49	24	V-Br
24		Br-V
50	25	V-Sl
25		SI-V

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- 5. Ship the product prepaid with the RA Number marked on the outside of the package to:

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