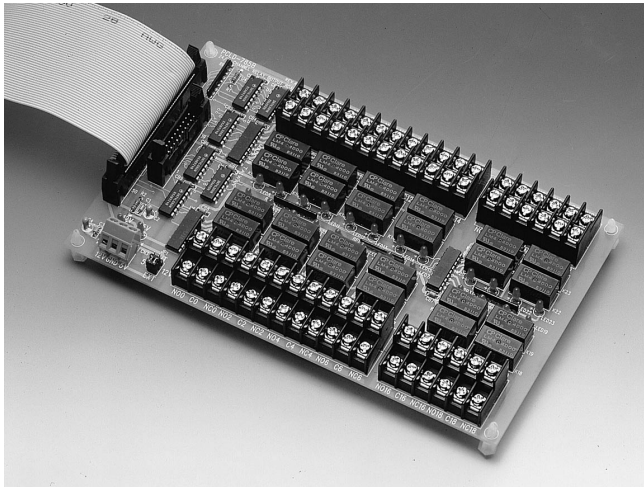


PCLD-785/785B

16/24-channel Relay Output Board



CE

Features

- Compatible with PC-LabCard™ products with:
 - 20-pin digital output connector (PCLD-785 & PCLD-785B), and
 - 50-pin Opto-22 digital output connector (PCLD-785B only)
- Automatic selection of control logic (PCLD-785B only):
 - Negative logic for the Opto-22 connector
 - Positive logic for the 20-pin flat cable connector
- Relays:
 - PCLD-785: 16 SPDT
 - PCLD-785B: 16 or 24 SPDT
- On-board relay driver circuits
- Screw terminals for easy output wiring
- LED status indicators
- Cable and mounting accessories

Introduction

The PCLD-785/785B carry 16/24 SPDT electromechanical relays with a 20-pin flat cable connector and an additional 50-pin Opto-22 connector (for PCLD-785B only) that is compatible with the digital outputs of most I/O Cards.

The number of output channels available on the PCLD-785B depends on what connector you use. The I/O card's 50-pin connector accesses all 24 channels, while its 20-pin connector has access to 16 channels. The PCLD-785B automatically selects the correct control logic for the connector used.

Specifications

- PCLD-785** Input connector: 20-pin flat cable
Channels: 16 (CN1, 20-pin conn.)
- PCLD-785B** Input connectors: 50-pin Opto-22, 20-pin flat cable
Channels: 24 (CN2, 50-pin conn.), 16 (CN1, 20-pin conn.)
- Relay Type** SPDT (Single-Pole Double-Throw) Form C
- Contact Ratings** AC: 120 V @ 0.5 A
DC: 30 V @ 1 A
- Contact Resistance** < 100 mΩ
- Operation Time** 5 msec. max.
- Release Time** 5 msec. max.
- Insulation Resistance** 100 mΩ
- Life Expectancy** AC: 5 x 10⁵ @ 110 V/0.3 A
DC: 5 x 10⁵ @ 24 V/1.25 A
- Output Connector** Screw clamp terminal block (PCLD-785)
Barrier strip terminal block (PCLD-785B)
- Power Requirements** Using the 20-pin connector:
+5 V_{DC} : Jumper select either PC bus or external supply
+12 V_{DC} : Jumper select either PC bus or external supply
You must use an external 12 V supply when you use the 50-pin connector.
- Control Logic** 20-pin flat cable conn.: Input TTL high (+5 V) = Relay on
50-pin Opto-22 conn.: Input TTL low (0 V) = Relay on
- Power Consumption** +5 V @ < 100 mA; +12 V @ 33 mA for each relay
- Board Dimensions** PCLD-785: 114 x 220 mm (4.5" x 8.7")
PCLD-785B: 132 x 220 mm (5.2" x 8.7")

Ordering Information

- PCLD-785B** 24-channel Relay Output Board, user's manual, 1-m 20-pin flat cable assembly (P/N: PCL-10120-1) and 1.2-m 50-pin flat cable assembly (P/N: PCL-10150-1.2)
- PCLD-785** 16-channel Relay Output Board, user's manual, 1-m 20-pin flat cable assembly (P/N: PCL-10120-1)
- PCL-10120-1** 20-pin flat cable assembly, 1 m
- PCL-10120-2** 20-pin flat cable assembly, 2 m
- PCL-10150-1.2** 50-pin flat cable, 1.2 m (connects the PCL-722 or 724 to the PCLD-885, 782B or 785B)

Pin Assignments

CN1				CN2			
CH0	1	2	CH1	CH23	1	2	GND
CH2	3	4	CH3	CH22	3	4	GND
CH4	5	6	CH5	CH21	5	6	GND
CH6	7	8	CH7	CH20	7	8	GND
CH8	9	10	CH9	CH19	9	10	GND
CH10	11	12	CH11	CH18	11	12	GND
CH12	13	14	CH13	CH17	13	14	GND
CH14	15	16	CH15	CH16	15	16	GND
GND	17	18	GND	CH15	17	18	GND
+5 V	19	20	+12 V	CH14	19	20	GND
				CH13	21	22	GND
				CH12	23	24	GND
				CH11	25	26	GND
				CH10	27	28	GND
				CH9	29	30	GND
				CH8	31	32	GND
				CH7	33	34	GND
				CH6	35	36	GND
				CH5	37	38	GND
				CH4	39	40	GND
				CH3	41	42	GND
				CH2	43	44	GND
				CH1	45	46	GND
				CH0	47	48	GND
				+5 V	49	50	GND

1
IPPC & AWS

2
TPC

3
FPM

4
ATM

5
DA&C

6
cPCI

7
ADAM-3000

8
eConnectivity

9
ICOM

10
Software

11
UNO-2000/3000

12
VBOX

13
ADAM-4000

14
ADAM-5000

15
ADAM-6000

16
ADAM-8000