



# Low Profile PCI Express 8 Reed Relay Output / 8 Isolated Input Digital Interface (3-30V)

**Part:** 8012e | **Model:** DIO-16.LPC1e

The 8012e Low Profile PCI Express digital interface provides eight optically isolated inputs and eight Reed relay outputs (SPST). The isolated inputs are non-polarized and rated for 3-30 VDC. Optical isolation protects the PC and other sensitive equipment from the voltage spikes and ground loop currents that are common to industrial environments. The Reed relays provide high quality, long-life, dry contact switch closures suitable for low-current applications. The relays are normally open and close when energized. The board is PCI Express X1 compliant and is compatible with any PCI Express slot.

The 8012e is for use in Low Profile PCI Express slots only. Order the 8012eS if you have a standard size PCI Express slot. Sealevel's SealO Classic software drivers and utilities make installation and operation easy using Microsoft Windows operating systems.

Get a jump start on your digital I/O development with The Digital I/O Handbook that will provide helpful information that you will use again and again. Check out Chapter 1 for an overview of logic principles.

## Features & Specifications

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#### Features

- Compliant with RoHS and WEEE directives
- PCI Express X1 compliant with low profile PC bracket
- Eight optically isolated inputs
- Wide, non-polarized input range of 3 – 30 VDC
- Eight highly-reliable Reed relay outputs (SPST)
- DC Power (+5V and +12V) and three ground pins provided on connector
- SealIO Classic software supports Microsoft Windows operating systems
- Software support for Linux available

#### Specifications

<b>Board Connector</b>	DB-44F
<b>Contact Current</b>	500 mA Switching Max DC / Peak AC Resistive
<b>Contact Voltage</b>	60 V Switching Max DC / Peak AC Resistive
<b>Digital I/O</b>	Isolated Inputs, Reed Relay Outputs
<b>Extended Temperature</b>	Call for Options
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Input Current</b>	2 – 20 mA
<b>Input Isolation</b>	300 VAC RMS
<b>Input Range</b>	3-30 VDC/VAC, Non-Polarized
<b>Input Impedance</b>	1500 ohms
<b>Host Interface(s)</b>	PCI Express
<b>Number of Inputs/Outputs</b>	8 Inputs, 8 Outputs
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Output Power</b>	10W Contact Max
<b>PC Bracket</b>	Low Profile
<b># of Ports</b>	8/8
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-35°C to 100°C (-31°F to 212°F)