



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

**Part:** 8012eS | **Model:** DIO-16.LPCle

The 8012eS 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 8012eS is for use in standard height PCI Express slots only. Order the 8012e if you have a low profile 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 standard height 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
- SealO Classic software supports Microsoft Windows operating systems
- Software support for Linux available

Specifications

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