Third Party DAQ Front-Ending Adapters for Dataforth Backpanels

Connects Standard Data Acquisition Systems to Dataforth SCM5B, SCM7B, or 8B Backpanels

Features

- **Installs on DAQ Module or between standard cables◊**
- **Enclosed in thermoplastic housing**
- **Eliminates Errors of Hand Wiring**
- **Versatile**
- **Compact**
- **Light Weight**
- **Rugged**
- **Reliable**
- **Saves Installation Time**
- **Simplifies Cabling**

Description

The SCMXDB series of adapters allow the full product offering of Dataforth SCM5B, SCM7B, and 8B SensorLex® modules to be used as a front-end for third Party Data Acquisition Systems. This allows a nearly unlimited selection of mix and match interfaces to a wide range of industrial sensors and signals.

Front-Ending with Dataforth products provides a 1500Vrms channel-to-channel isolation, 1500Vrms input-to-output isolation, up to 240Vrms overload protection, and a high level of sensor input transient protection to systems lacking in these areas. Isolation is essential to eliminating signal degradation caused by conducted or radiated noise and for breaking ground loops. Overload protection ensures valuable DAQ equipment is not damaged by harsh industrial environmental conditions.

This series of adapters connects a standard D-Sub data acquisition I/O interface to Dataforth SCM5B, SCM7B, and 8B SensorLex® backpanels. Options include Differential-Ended I/O to connect to single 16-channel backpanels and Single-Ended I/O to connect to two 16-channel backpanels for 32 channels of I/O. Two additional models provide for transition between an IDC26 connector used on SCM5B backpanels and a DB25 connector used on SCM7B and 8B SensorLex® backpanels. Rugged thermoplastic housings and mounting screws ensure reliable signal connections in harsh environments.

Specifications Typical at T_A =+25°C

Voltage Rating	30V
Current Rating per Contact	1A
Interface Connectors	DB37 Female DB25 Female IDC26 Male
Environmental	
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Relative Humidity	0 to 95% Non-condensing

◊Does not install directly on Dataforth backpanel.

Ordering Information

For connecting to National Instruments DAQ Modules

Model	Number of Dataforth Backpanels	Connects to Dataforth Backpanel	Signal Type	Package (See last page)
DAQ Module: NI-9205				
SCMXDB37F5BP00	1	SCMPB01-x, SCMPB05-x	Differential Ended	Figure 1
SCMXDB37F25BP00	2	SCMPB01-x, SCMPB05-x	Single Ended	Figure 3
SCMXDB37F7BP00	1	SCM7BP16-x, SCM7BP08-x	Differential Ended	Figure 2
SCMXDB37F8BP00	1	8BP16-x, 8BP08-x	Differential Ended	Figure 2
SCMXDB37F27BP00	2	SCM7BP16-x, SCM7BP08-x	Single Ended	Figure 4
SCMXDB37F28BP00	2	8BP16-x, 8BP08-x	Single Ended	Figure 4
DAQ Module: NI-9264				
SCMXDB37F5BP00	1	SCMPB01-x, SCMPB05-x		Figure 1
SCMXDB37F7BP00	1	SCM7BP16-x, SCM7BP08-x		Figure 2
SCMXDB37F8BP00	1	8BP16-x, 8BP08-x		Figure 2

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Ordering Information

For connecting between Dataforth Backpanels

Model	Connects to Dataforth Backpanel	Number of Dataforth Backpanels	Connects to Dataforth Backpanel	Number of Dataforth Backpanels	Package (See last page)
SCMX5B-7B	SCMPB01-x, SCMPB05-x	1	SCM7BP16-x, SCM7BP08-x	1	Figure 5
SCMX5B-8B	SCMPB01-x, SCMPB05-x	1	8BP16-x, 8BP08-x	1	Figure 5

Note: For connecting SCM7B backpanels to 8B backpanels, use standard DB25 cable, SCMXCA006-01, or -02.

If you do not see the DAQ Module or Configuration that suits your needs, contact Dataforth with the following information:

- DAQ Module you are connecting to
- Type of Dataforth Backpanel you are connecting to (SCMPB01-x, SCMPB05-x, SCM7BP16-x, SCM7BP08-x, 8BP16-x, 8BP08-x)
- How many Dataforth backpanels you are connecting to (1 or 2)

Packages

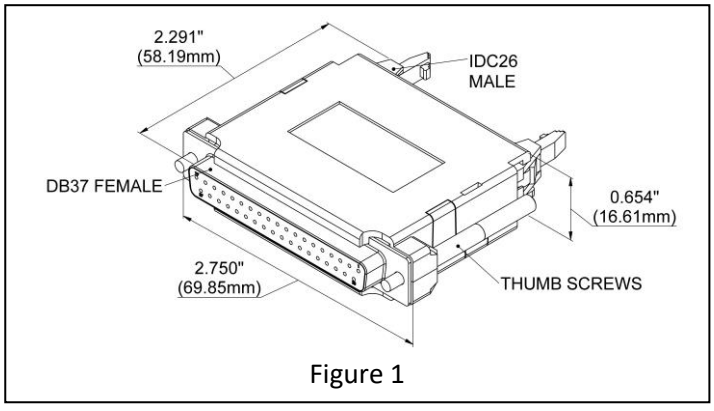


Figure 1

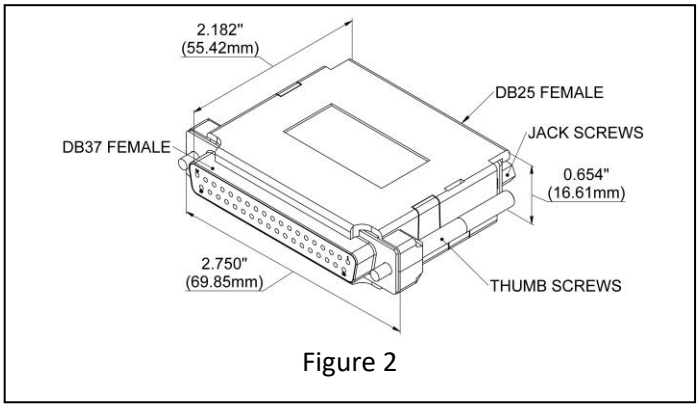


Figure 2

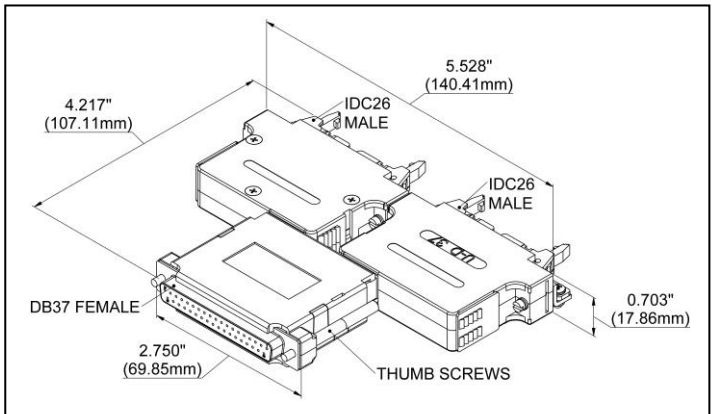


Figure 3

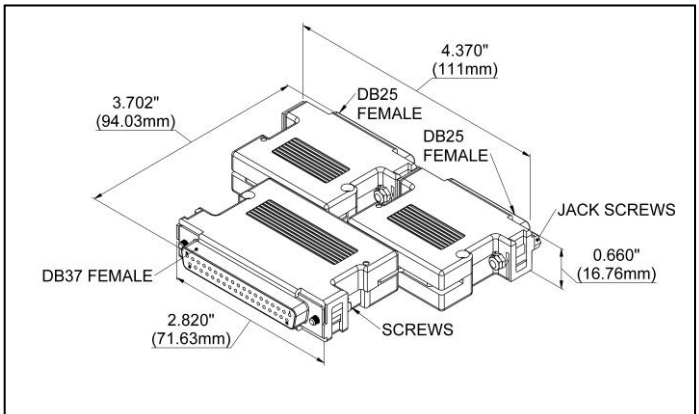


Figure 4

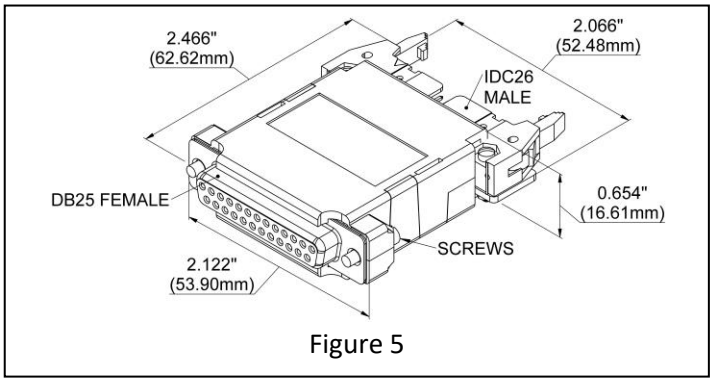


Figure 5

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