Lynx™ 0-10V/4-20mA Input Module - IA1-D-VI

The IA1-D-VI is a DIN rail-mountable 0-10V/4-20mA Input Module designed to be used with the *eDART* System™. This module can be used to monitor outputs from load cells, output cards and sensors that output 0-10V or 4-20mA signals. These signals may represent injection pressure, screw position, temperatures or other molding parameters.

Always power down before working on any equipment

The Input Module is designed to be mounted on standard 35mm DIN rail, often found in machine panels. Once mounted, the J1 and J2 connectors allow the unit to be interfaced with other Lynx™ DIN rail modules and the *eDART* System™. Each machine panel installation of one or more DIN rail modules requires either a ID7-D-SEQ or a DIN/LX-D to terminate the DIN rail module chain. Contact your RJG, Inc. representative for details or more information.

The Input Module interfaces the voltage source to be monitored using two terminals (see Figure 5 and Table 6). For current mode setup, see Figure 7.

The *eDART*™ software configures the Input Module information, and requires user input for initial setup.

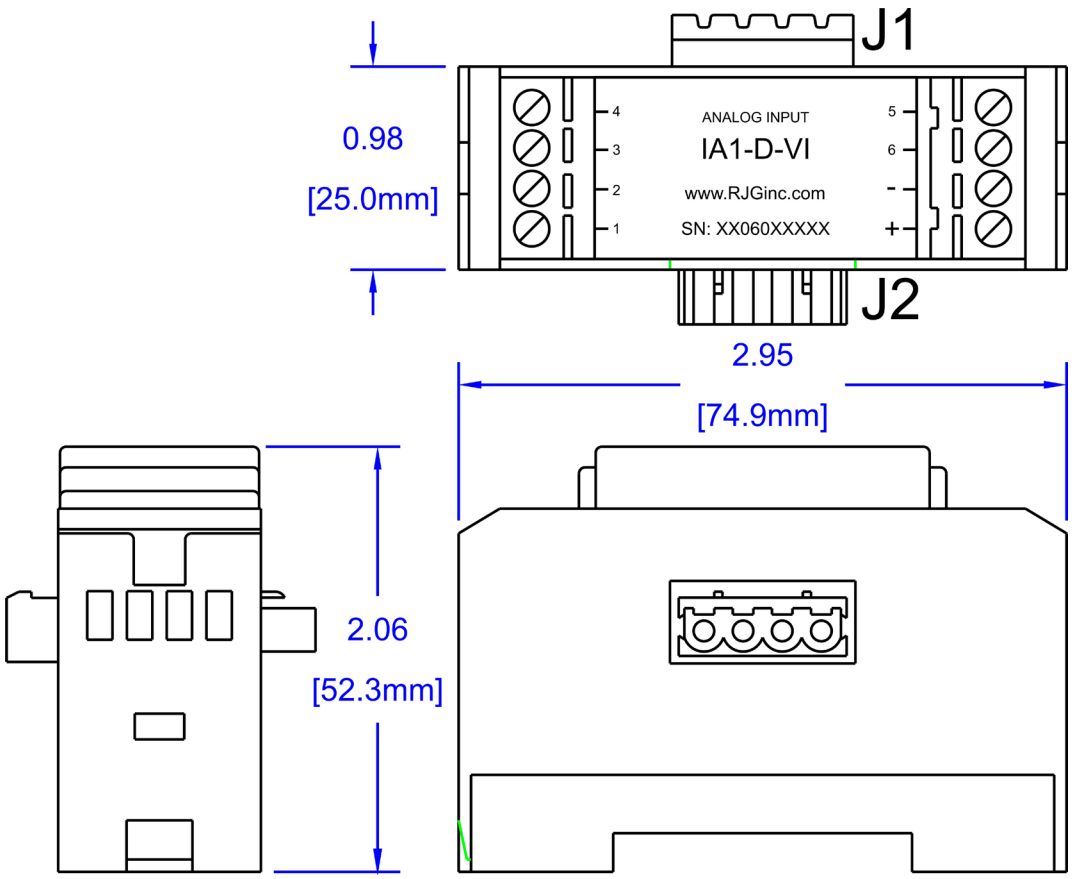

Figure 5: Lynx IA1-D-VI Input Module dimensions

Technical Specifications	
Power (supplied by eDART)	12VDC
Current Draw	95mA
Input Impedance	10 MOhms
Voltage Accuracy	0.1%
Current Accuracy	0.1%
Current Sensing Resistance	470 Ohms

Table 6: Analog Input Module technical specifications

Always power down before working on any equipment

Connection	Function	Wire Color
Terminal 1	N/A	-
Terminal 2	N/A	-
Terminal 3	Jumper 1	4-20mA only
Terminal 4	Jumper 1	4-20mA only
Terminal 5	Jumper 2	4-20mA only
Terminal 6	Jumper 2	4-20mA only
Terminal 7	OV	Black
Terminal 8	0-10V	Red
J1, J2	Communications	-

Table 7: Analog Input Module terminal connections

IA1-D-VI Installation Instructions

The input module can be interfaced with a machine output card, as shown in Figure 6. Tie the shield wire on the machine to the cable shield.

You can configure an input module to take in a 4-20mA signal by installing the two small wire jumpers shown in Figure 7 into terminals 3-4 and 5-6. The Input Module will sense the jumpers and scale the output accordingly.

Always power down before working on any equipment

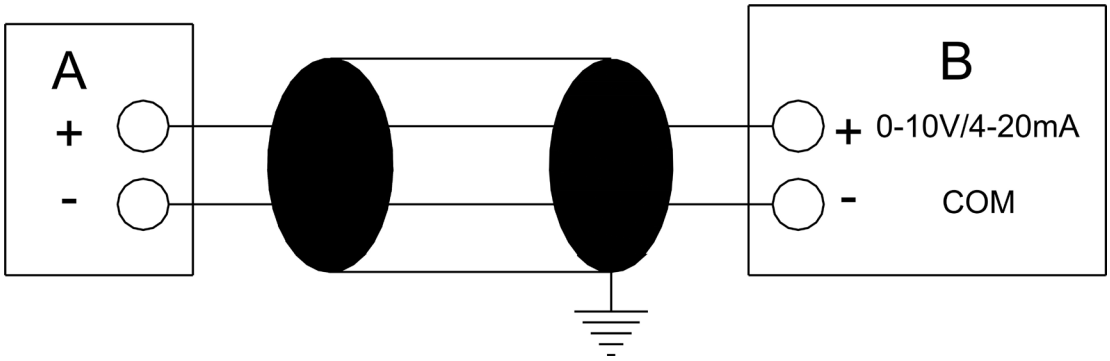

Figure 6: Analog Input Module to machine output card wiring

A	Machine Analog Output Card
B	IA1-D-VI Analog Input Module

Table 8: Figure Labels

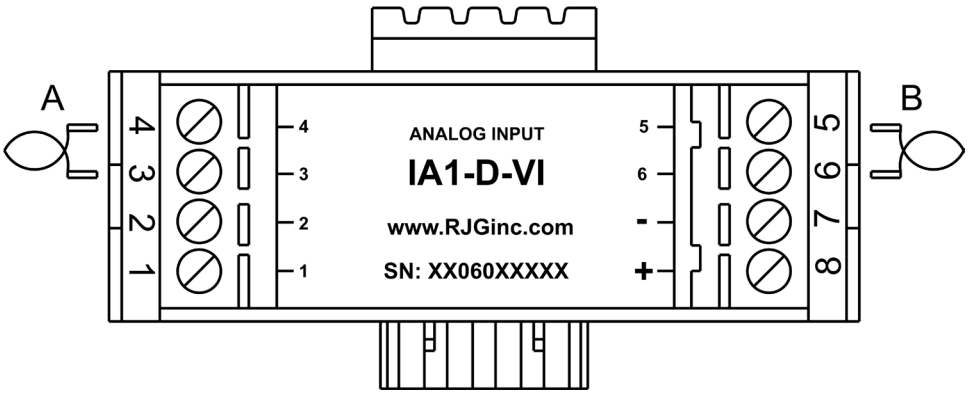

Figure 7: Wire jumpers (A & B) installed on Input Module for 4-20mA inputs only.