

## Hex Differential Amplifier G123-816

### Description

The G123-816 Hex Differential Amplifier is used to condition six differential signals into six single ended  $\pm 10V$  signals, suitable for Moog Programmable Servo Controller (PSC) analog inputs. The differential input offers three important benefits: an interface direct to differential transducers, the option of inverting or non-inverting operation and the ability to interface to single ended signals as well as differential.

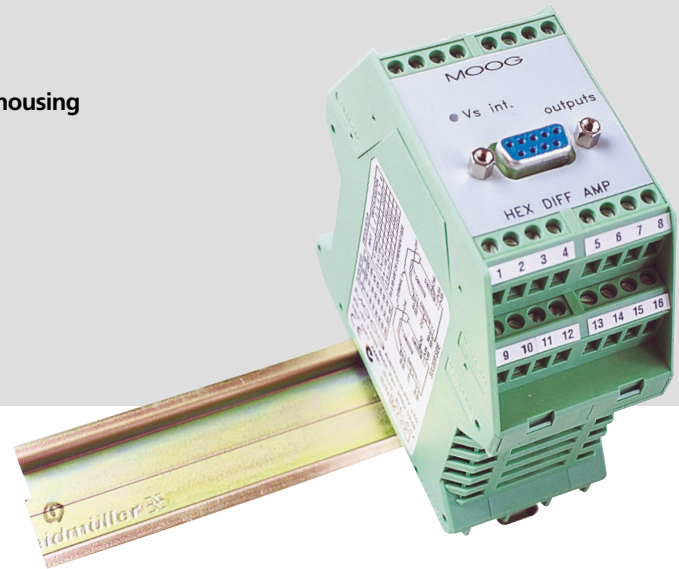
Switches inside the module enable five different types of voltage and current input signals to be selected. They are: 4-20mA, 0 to  $\pm 10V$ , 0 to  $\pm 5V$ , 0 to 10V and 0 to 5V.

As well as producing a PSC compatible signal, the amplifier has double pole low pass noise and anti-alias filters that have rolloff frequencies selected by two plug-in resistors.

The Hex Diff Amp is housed in a compact DIN rail mounting enclosure and requires a +24V power supply.

### Features

- Differential or single ended inputs
- Inverting or non-inverting inputs
- Five different input signals
- PSC compatible output
- Frequency selectable anti-alias filters
- Compact DIN rail housing
- CE marked

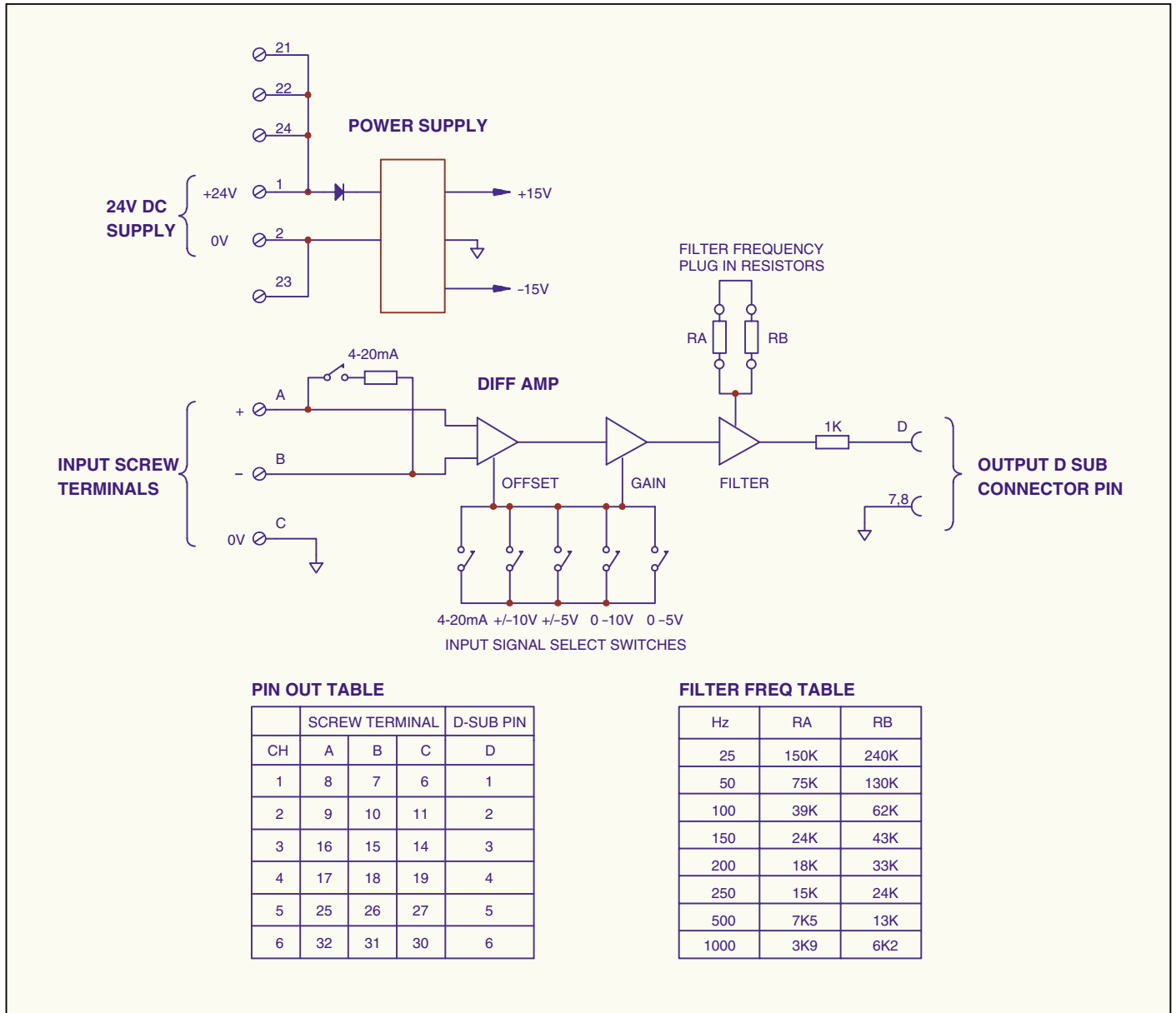


### Specifications

<b>Voltage inputs:</b>	0 to $\pm 10V$ , 0 to $\pm 5V$ , 0 to 10V and 0 to 5V 25kOhm input resistance
<b>Current input:</b>	4-20mA 312Ohm load resistance
<b>Outputs:</b>	0 to $\pm 10V$ $R_{out} = 1k\Omega$
<b>Anti-alias filter:</b>	Double or single pole 25, 50, 100, 150, 200, 250, 500 and 1000 Hz
<b>Front panel indicator:</b>	$V_s$ , internal supply – green
<b>Supply:</b>	24V nominal, 22 to 28V 55mA @ 24V, no load
<b>Mounting:</b>	DIN rail IP 20
<b>Temperature:</b>	0 to +40°C

<b>Dimensions:</b>	100W x 108H x 45D
<b>Weight:</b>	220g
<b>CE mark:</b>	EN50081.1 emission EN50082.2 immunity
<b>C tick:</b>	AS4251.1 emission

# Operating Details



## Ordering Information

### Hex Differential Amplifier G123-816-001

Special configurations can be provided.

Consult your Moog sales office to discuss details.

### Internet Data

For detailed Application Notes and the latest version of this Data Sheet please refer to the Moog website [www.moog.com/dinmodules](http://www.moog.com/dinmodules)

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