# MOOG

### 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

1

CE marked

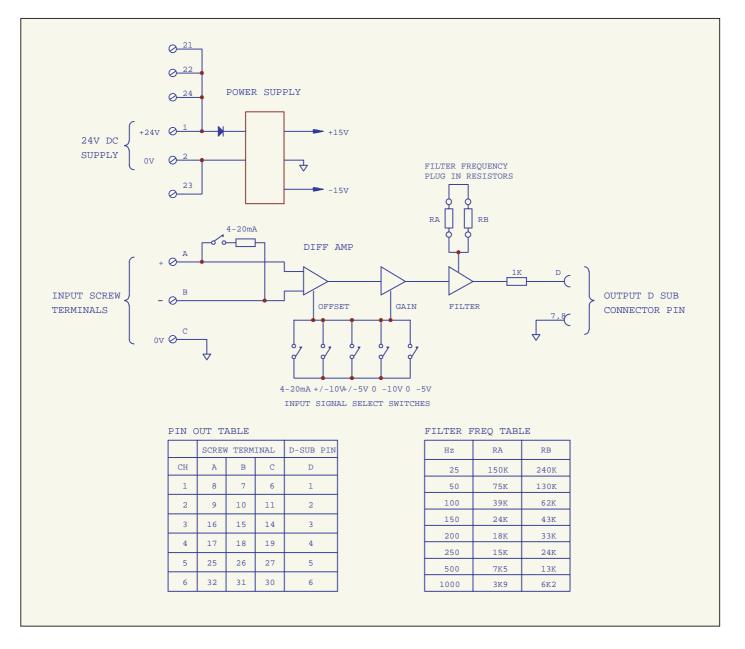
## Specifications

Voltage inputs:	0 to $\pm$ 10V, 0 to $\pm$ 5V, 0 to 10V and 0 to 5V 40kOhm input resistance
Current input:	4-20mA 312 Ohm load resistance
Outputs:	0 to $\pm 10V$ Rout = 1kOhm
Anti-alias filter:	Double pole 25, 50, 100, 150, 200, 250, 500 and 1000 Hz
Front panel indicator:	Vs, internal supply = green
Supply:	24V nominal, 22 to 28V 50mA @ 24V, no load
Mounting:	DIN rail IP 20
Temperature:	0 to +40°C

	A LIVE	
		in the second se
anullor 3		

Dimensions:	100W x 108H x 45D
Weight:	220g
CE mark:	EN50081.1 emission EN50082.2 immunity
C tick:	AS4251.1 emission
C tick:	5

### **Operating Details**



### Ordering Information

#### Hex Differential Amplifier G123-816-001

Special configurations can be provided. Consult your Moog sales office to discuss details.



Moog Australia Pty. Ltd. A.C.N. 005 599 584, 14 Miles Street, Mulgrave, Vic 3170. Telephone: + 61 3 9561 6044. Fax: + 61 3 9562 0246.

Moog Australia Pty. Ltd. pursues a policy of continuous development and reserves the right to alter designs and specifications without prior notice. Information contained herein is for guidance only and does not form part of a contract. Australia: Melbourne and Sydney 
Austral: Vienna
Brazil: São Paulo
Denmark: Birkerød
England: Tewkesbury
Finland: Espoo
France: Rungis
Germany: Böblingen, Dusseldorf
Hong Kong: Shatin
India: Bangalore Ireland: Ringaskiddy
Italy: Malnate (VA)
Japan: Hiratsuka
Korea: Kwangju-Kun
Philippines: Baguio City
Singapore
Singapore
Sweden: Askim
USA: East Aurora (NY)