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Hex Differential Amplifier
G123-816

Description

The G123-816 Hex Differential Amplifier is used to condition six differential signals into six single ended ±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.
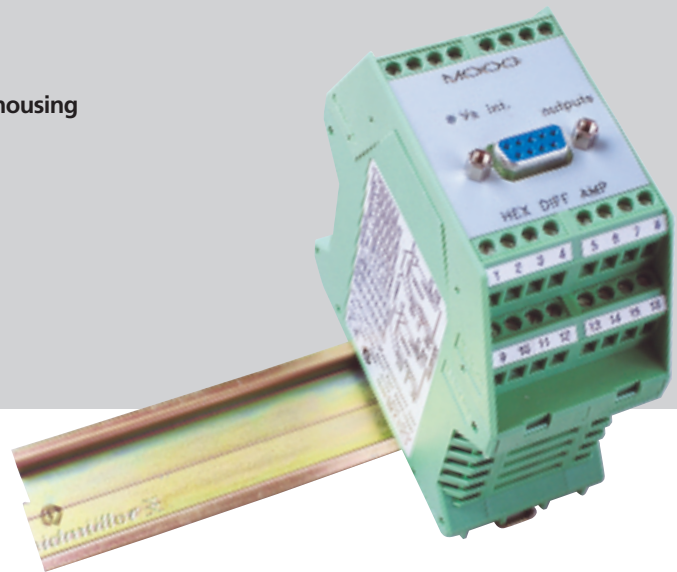
Switches inside the module enable five different types of voltage and current input signals to be selected. They are: 4-20mA, 0 to ±10V, 0 to ±5V, 0 to 10V and 0 to 5V.

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**
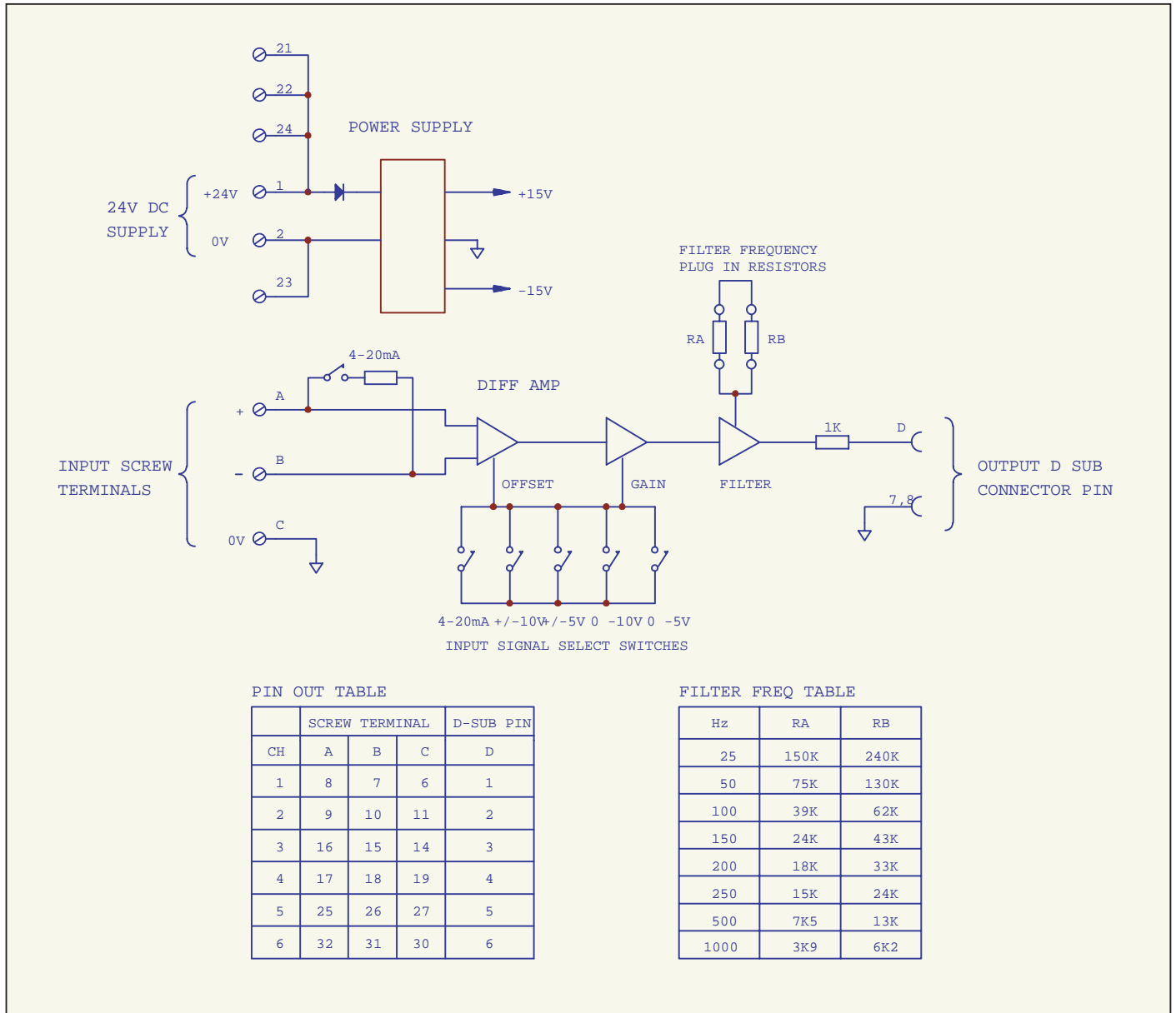- **Compact DIN rail housing**
- **CE marked**

Specifications

Voltage inputs:	0 to ±10V, 0 to ±5V, 0 to 10V and 0 to 5V 40kOhm input resistance
Current input:	4-20mA 312 Ohm load resistance
Outputs:	0 to ±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 +40ºC

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

Operating Details

PIN OUT TABLE

	SCREW TERMINAL			D-SUB PIN
CH	A	B	C	D
1	8	7	6	1
2	9	10	11	2
3	16	15	14	3
4	17	18	19	4
5	25	26	27	5
6	32	31	30	6

FILTER FREQ TABLE

Hz	RA	RB
25	150K	240K
50	75K	130K
100	39K	62K
150	24K	43K
200	18K	33K
250	15K	24K
500	7K5	13K
1000	3K9	6K2

Ordering Information

Hex Differential Amplifier G123-816-001

Special configurations can be provided.

Consult your Moog sales office to discuss details.

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