High Speed Strain Gauge Amplifier/Isolator Part Numbering

Product Description: HS Strain Gauge Amp/Isolator [input]/[output] [excitation][aux supply]

Part Numbering: GB-HS/s-nt/rep

s = input signal range:	
A - ±5 mV	N – 0-33.3 mV
B - ±10 mV	P – 0-5 mV
C - ±20 mV	Q – 0-10 mV
D - ±50 mV	R – 0-20 mV
E - ±60 mV	S - 0-50 mV
F - ±100 mV	T - 0-60 mV
G - ±150 mV	U - 0-100 mV
H - ±200 mV	V – 0-150 mV
J - ±120 mV	W - 0-200 mV
K - ±400 mV	X - 0-250 mV
L - ±30 mV	Y - 0-15 mV
M - ±33.33 mV	Z – 0-30 mV

n - output signal type
I = current, V = voltage
t - output signal range:

current (n=I):	voltage (n=V):
A = 4-20 mA	A = 0-10 V
B = 0-20 mA	B = 0-50 mV
	C = ±50 mV
	D = 0-5 V
	E = ±5 V
	F = 1-5 V
	G = ±10 V
	K = 0-1 V

e – excitation: Y = 5.000 V, Z = 10.000 V

p - auxiliary power supply
AB = 90-264 VAC (47-63 Hz) or 120-370 VDC
C = 24 VDC
D = 12 VDC
E = 9-18 VDC (nominally 12 VDC)
G = 18–36 VDC (nominally 24 VDC)
H = 36–72 VDC (nominally 48 VDC)
K = 9–27 VDC

High Z, high speed amplifier for general use:

s - changes to:
IA Input = 4-20 mA into 10 Ω
VG Input = ±10 V at 20 MΩ

Part Numbering Examples:

GB-HS/A-VE/ZAB	HS Strain Gauge Amp ±5 mV(1mV/V)/±5 V, Ex=10.00, 90-264 VAC
GB-HS/S-VA/ZAB	HS Strain Gauge Amp 0-50 mV(5mV/V)/0-10 V, Ex=10.00, 90-264 VAC
GB-HS/B-VA/ZC	HS Strain Gauge Amp ±10 mV(1mV/V)/0-10 V, Ex=10.00, 24 VDC
GB-HS/IA-VD/ZC	HS Strain Gauge Amp 4-20 mA (Input R=10Ω)/0-5 V, Ex=10.00, 24 VDC
GB-HS/VG-VG/ZC	HS Strain Gauge Amp ±10 V (Input R=20MΩ)/ ±10 V, Ex=10.00, 24 VDC

		Loadcell Sensitivity and Input Voltage Range:							
	1 mV/V	2 mV/V	3 mV/V	4 mV/V	5 mV/V	10 mV/V	15 mV/V	20 mV/V	25 mV/V
Excitation									
5.00 V	5 mV	10 mV	15 mV	20 mV	25 mV	50 mV	75 mV	100 mV	125 mV
10.00 V	10 mV	20 mV	30 mV	40 mV	50 mV	100 mV	150 mV	200 mV	250 mV

Ordering Check Sheet

Part Numbering: GB-HS/s-nt/rep

Input Signal Range	s	
±5 mV	A	
±10 mV	B	
±20 mV	C	
±50 mV	D	
±60 mV	E	
±100 mV	F	
±150 mV	G	
±200 mV	H	
±120 mV	J	
±400 mV	K	
±30 mV	L	
±33.33 mV	M	

Input Signal Range	s	
0-33.3 mV	N	
0-5 mV	P	
0-10 mV	Q	
0-20 mV	R	
0-50 mV	S	
0-60 mV	T	
0-100 mV	U	
0-150 mV	V	
0-200 mV	W	
0-250 mV	X	
0-15 mV	Y	
0-30 mV	Z	

Excitation	e	
5.000 V	Y	
10.000 V	Z	

Aux Power Supply	p	
90-264 VAC (47-63 Hz) or 120-370 VDC	AB	
24 VDC	C	
12 VDC	D	
9-18 VDC	E	
18–36 VDC	G	
36–72 VDC	H	
9–27 VDC	K	

Output Current (n = I)	t	
4-20 mA	A	
0-20 mA	B	
Output Voltage (n = V)	**t**	
0-10 V	A	
0-50 mV	B	
±50 mV	C	
0-5 V	D	
±5 V	E	
1-5 V	F	
±10 V	G	
0-1 V	K	

Higher Bandwidth = Higher Noise (so select the lowest bandwidth required)

Bandwidth	Step Response	r	
20 kHz	50 µS	A	
6 kHz	16 µS	B	
100 Hz	0.01 mS	C	
10 Hz	0.1 mS	D	