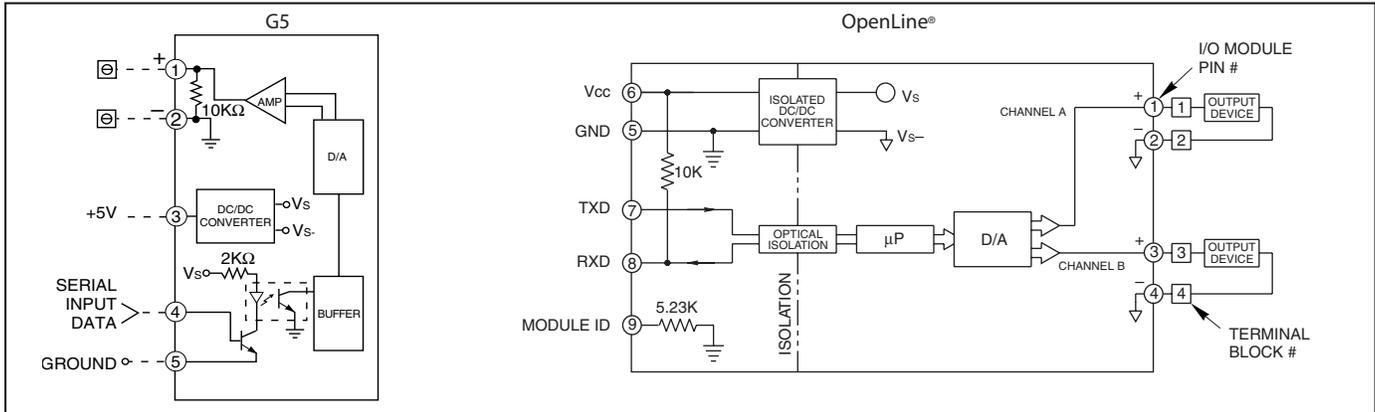**Grayhill**

FEATURES
- Standard Package and Pin-out
- Single 5V Power Supply
- 12-Bit Resolution
- Optical Isolation
- Intermix With Digital Modules on the Same Rack
- Meets the Requirements of IEEE 472
- UL, CSA, CE Certified (OpenLine® only)

73L-OV   73G-OV

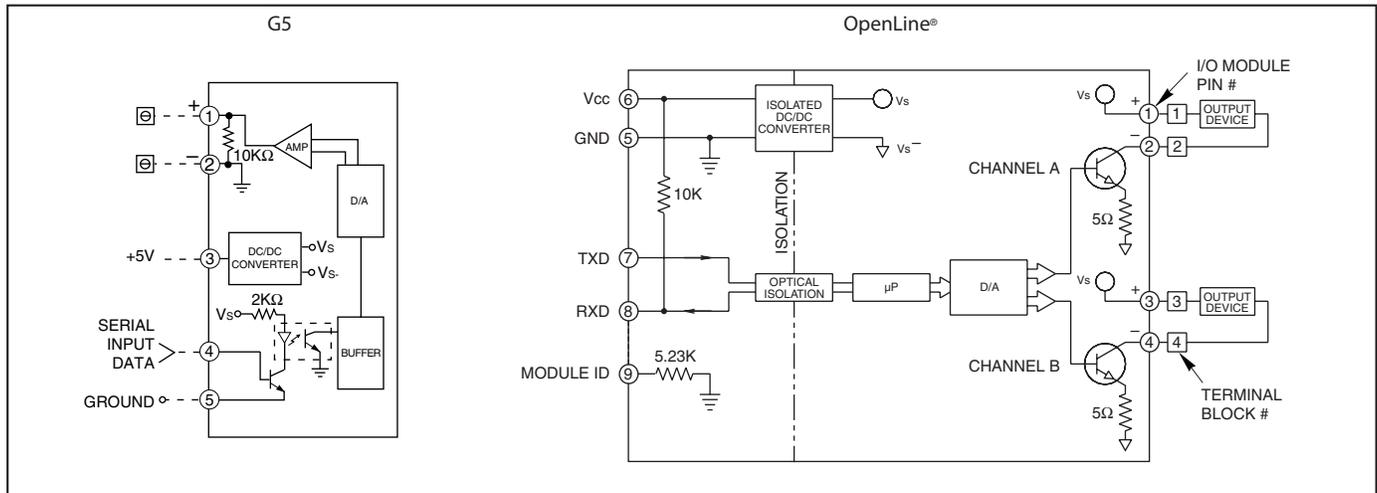## CIRCUITRY: Voltage Output

G5

OpenLine®

SPECIFICATIONS: By Part Number

Type/Function		Grayhill Part Number	
G5, OpenLine®		73L-OV5, -OV5B	73G-OV10, -OV10B
Specifications	Units		
Number of Outputs		1 Ch., Diff.	1 Ch., Diff.
Resolution	bits	12	12
	mV/count	-OV5: 1.22	-OV10: 2.44
		-OV5B: 2.44	-OV10B: 4.88
Absolute Accuracy @ 25°C[1, 2]		0.08% of full scale	0.3% of full scale
Accuracy Drift w/Temp.[2]			
Maximum Offset	PPM/°C	+/- 25	+/- 45
Maximum Gain (0 to 60°C)	PPM/°C	+/- 100	+/- 150
Serial Data Format		Left-justified, 16-bit packet	12-bit packet
Serial Data Packet		11.52Kb, N, 8, 2	—
Step Response Time	mS	0.8	0.5
Output Noise Ripple	mV rms	1.5 max.	—
Output Voltage Range	Vdc	-OV5: 0-5	-OV10: 0-10
		-OV5B: -5-5	-OV10B: -10-10
Maximum Load	Ω	250	1000
Logic Voltage Range	Vdc	4.75-5.25	4.5-5.5
Maximum Logic Supply Current @ 5Vdc	mA/Ch.	105	140
Power Up Status		Output @ min. value	Output @ min. value
Short Circuit Protection		Yes	Yes
Module ID (Pin 9)	KΩ	5.23	N/A
Isolation Voltage			
Field to Logic	Vrms	2500	2500
Field to Power	Vrms	2500	2500
Module to Module	Vrms	2500	2500
Channel A to Channel B		N/A	N/A
Environmental Conditions			
Operating Temperature	°C	-40-85	0-60
Storage Temperature	°C	-40-100	-25-85

[1] Includes offset, gain, non-linearity and repeatability error terms.
[2] Accuracy and drift graphs are available in Bulletin #753.

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I/O
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I/O Modules

CIRCUITRY: Current Output

G5   OpenLine®

SPECIFICATIONS: By Part Number

Type/Function		Grayhill Part Number		
G5, OpenLine®		73G-OI420	73L-OI420	73L-OI024
Specifications	Units			
Number of Outputs		1 Ch., Diff.	2 Ch., S.E.	2 Ch., S.E.
Resolution	bits	12	12	12
	µA/count	3.9	4.9	5.9
Absolute Accuracy @ 25°C[1]				
Accuracy Drift w/Temp.[2]				
Maximum Offset	PPM/°C	+/- 45	+/- 45	+/- 50
Maximum Gain (0 to 60°C)	PPM/°C +/- 150	+/- 150	+/- 100	
Serial Data Format		12-bit packet	Right Justified, 16-bit	Right Justified, 16-bit
Serial Data Packet		—	115.2Kb, N, 8, 21	15.2Kb, N, 8, 2
Step Response Time	µS	0.5	500	500
Max. Loop Resistance[3]	Ohms	330	500	500
Output Current Range	mA	4-20	4-20	0-24
Maximum Load	Ω	250	Continuous short circuit	Continuous short circuit
Logic Voltage Range	Vdc	4.5-5.5	4.75-5.25	4.75-5.25
Maximum Logic Supply Current				
@ 5V dc	mA/Ch.	140	140	100
Power Up Status		Output @ min. value	Output @ min. value	Output @ min. value
Short Circuit Protection		Yes	Yes	Yes
Module ID (Pin 9)	KΩ	N/A	5.23	5.23
Isolation Voltage				
Field to Logic	Vrms	2500	2500	2500
Field to Power	Vrms	2500	2500	2500
Module to Module	Vrms	2500	2500	2500
Channel A to Channel B		N/A	None	None
Environmental Conditions				
Operating Temperature[3,4]	°C	0-60	-40-85	-40-85
Storage Temperature	°C	-25-55	-40-100	-40-100

[1] Includes offset, gain, non-linearity and repeatability error terms.
[2] Accuracy and drift graphs are available in Bulletin #753.
[3] External loop supply can increase maximum loop resistance rating.

Available from your local Grayhill Distributor. For prices and discounts, contact a local Sales Office, an authorized local Distributor or Grayhill.