FEATURES

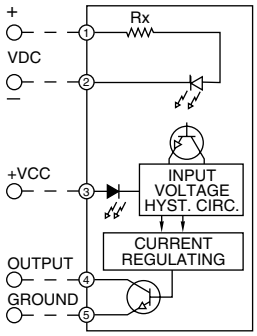
- Fast Switching Polarized Input Types
- UL, CSA, CE, TÜV Certified (TÜV not available on OpenLine®)
- Optical Isolation
- OpenLine® and G5 Modules have Built-in Status LED



70L-IDC 70G-IDC 70-IDC 70M-IDC

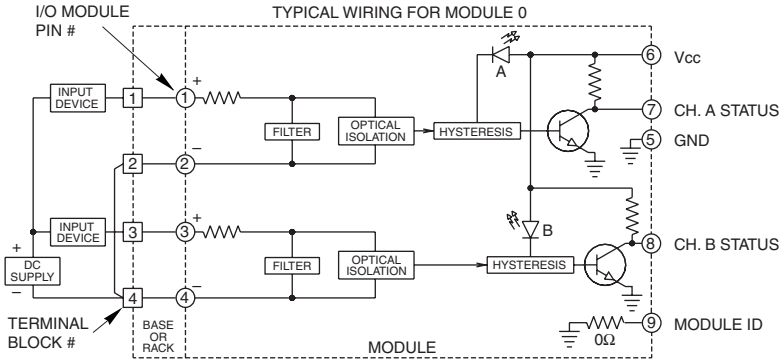
CIRCUITRY

Standard, Mini, G5



Status LED in G5 modules only.

OpenLine®



SPECIFICATIONS: By Package Style

Package Style		Std (70-)	Mini (70M-)	G5 (70G-)	OL (70L-)
Specifications	**Units**				
Output Current Range	mA	1-50	1-50	1-50	1-50
Minimum Output Breakdown Voltage	Vdc	50	50	50	50
Isolation Voltage[1]	Vrms	4000	4000	4000	2500
Vibration[2]		MIL-STD-202	MIL-STD-202	MIL-STD-202	IEC68-2-6
Mechanical Shock[3]		MIL-STD-202	MIL-STD-202	MIL-STD-202	IEC68-2-27
Storage Temp. Range	°C	-40 to 125	-40 to 125	-40 to 125	-40 to 100
Operating Temp. Range	°C	-40 to 100	-40 to 100	-40 to 100	-40 to 85
Warranty		Lifetime	Lifetime	Lifetime	Lifetime

[1] Field to logic and channel-to-channel if Grayhill racks are used.
[2] MIL-STD-202, Method 204, 20G, 10-2000 Hz or IEC68-2-6, 0.15 mm/sec², 10-150 Hz.
[3] MIL-STD-202, Method 213, Condition F, 1500G or IEC68-2-27, 11 mS, 15g.

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SPECIFICATIONS: By Part Number

Standard and Miniature Modules

Type/Function		Grayhill Part Number				
Miniature, Polarized		**70M-IDC5**			**70M-IDC15**	**70M-IDC24**
Standard, Non-Polarized		**70-IDC5**	**70-IDC5B**	**70-IDC5K**	**70-IDC15**	**70-IDC24**
Specifications	**Units**					
Maximum Input Voltage	Vdc	32	32	16	32	32
Input Voltage Range[1]	Vdc	3-32	3-32	2.5-16	3-32	3-32
Input Current @ Maximum Input Voltage	mA	18	18	30	18	18
Maximum Turn-On Time	mSec	0.20	0.050	0.025	0.20	0.20
Maximum Turn-Off Time	mSec	0.40	0.075	0.030	0.40	0.40
Nominal Input Resistance (Rx)	Ω	1.8K	1.8K	500	1.8K	1.8K
Maximum Pick-Up Voltage (Output Low)	Vdc	3	3	2.5	3	3
Minimum Drop-Out Voltage (Output High)	Vdc	1	1	1	1	1
Nominal Logic Voltage (Vcc)	Vdc	5	5	5	15	24
Logic Voltage Range	Vdc	3-6	3-6	3.5-6	8-18	15-30
Max. Logic Supply Current @ Nominal Vcc	mA	10	18	18	10	10

G5 Modules

Type/Function		Grayhill Part Number					
G5, Polarized, Status LED		**70G-IDC5**	**70G-IDC5B**	**70G-IDC5D**	**70G-IDC5K**	**70G-IDC15**	**70G-IDC24**
Specifications	**Units**						
Maximum Input Voltage	Vdc	32	32	28	16	32	32
Input Voltage Range[1]	Vdc	3-32	3-32	2.5-28	2.5-16	3-32	3-32
Input Current @ Maximum Input Voltage	mA	18	18	23	30	18	18
Maximum Turn-On Time	mSec	0.20	0.050	0.050	0.025	0.20	0.20
Maximum Turn-Off Time	mSec	0.40	0.075	0.075	0.030	0.40	0.40
Nominal Input Resistance (Rx)	Ω	1.8K	1.8K	1.2K	500	1.8K	1.8K
Maximum Pick-Up Voltage (Output Low)	Vdc	3	3	2.5	2.5	3	3
Minimum Drop-Out Voltage (Output High)	Vdc	1	1	1	1	1	1
Nominal Logic Voltage (Vcc)	Vdc	5	5	5	5	15	24
Logic Voltage Range	Vdc	4.5-6	4.5-6	4.5-6	4.5-6	10-18	17-30
Max. Logic Supply Current @ Nominal Vcc	mA	10	18	10	18	10	10

OpenLine® Modules

Type/Function		Grayhill Part Number	
Dual, Polarized		**70L-IDC**	**70L-IDCB**
Specifications	**Units**		
Maximum Input Voltage	Vdc	32	32
Input Voltage Range[1]	Vdc	0-32	0-32
Input Current @ Max. Input Voltage	mA	18	18
Maximum Turn-on Time	mSec	0.20	0.05
Maximum Turn-off Time	mSec	0.40	0.075
Nominal Input Resistance (Rx)	Ω	1800	900
Maximum Pick-Up Voltage (Output Low)	Vdc	3	3
Minimum Drop-Out Voltage (Output High)	Vdc	0.9	0.9
Nominal Logic Voltage (Vcc)	Vdc	5	5
Logic Voltage Range	Vdc	4.5-28	4.5-28
Max. Logic Supply Current @ Nominal Vcc	mA	6/CH	6/CH
Module ID Resistance to Logic Ground	Ω	0	0

[1] For input voltages in the range of 90 to 140 Vdc, use AC input modules 70-IAC5, 70M-IAC5, 70G-IAC5 or 70L-IAC. For input voltages in the range of 180 to 280 Vdc, use AC input modules 70-IAC5A, 70M-IAC5A, 70G-IAC5A or 70L-IACA.

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