

## G4 Digital DC Input Modules

### Specifications

	Units	91/50117-00	91/50142-00		
		G4IDC5	G4IDC5B	G4IDC5D	G4IDC5G
Input voltage range	VDC VAC	10–32 12–32	4–16 4–16	2.5–28 —	35–60 35–60
Key feature		—	Higher speed	High speed	—
Input current at maximum line	mA	25	45	30	6
Isolation, input-to-output (transient): 1 ms 1 minute	V V	4000 1500	4000 1500	4000 1500	4000 1500
Turn-on time	ms	5	0.05	1	10
Turn-off time	ms	5	0.1	1.5	10
Input allowed for off-state	mA, V	1, 3	0.7, 1	0.2, 1	0.7, 7
Nominal output supply voltage	VDC	5	5	5	5
Output supply voltage range	VDC	4.5–6	4.5–6	4.5–6	4.5–6
Output supply current at nominal logic voltage	mA	12	12	12	12
Input resistance (R1 in schematic)	ohms	1.5 K	300	900	10 K
Control resistance (Rc in schematic)	ohms	220	220	470	220
Output voltage drop	V @ 50 mA	0.4	0.4	0.4	0.4
Output current (sinking)	mA	50	50	50	50
Output leakage with no input	microamps @ 30 VDC	100	100	10	100
Transistor	V breakdown	30	30	30	30
Temperature:					
Operating	°C	–30 to +70	–30 to +70	–30 to +70	–30 to +70
Storage	°C	–30 to +85	–30 to +85	–30 to +85	–30 to +85

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### Specifications (cont.)

	Units	G4IDC5K	G4IDC5MA	G4IDC15**	G4IDC24**
Input voltage range	VDC VAC	2.5–16 —	10–32 12–32	10–32 12–32	10–32 12–32
Key feature		Highest speed	Diagnostic switch	—	—
Input current at maximum line	mA	30	25	25	25
Isolation, input-to-output (transient): 1 ms 1 minute	V V	4000 1500	4000 1500	4000 1500	4000 1500
Turn-on time	ms	0.025*	5	5	5
Turn-off time	ms	0.025*	5	5	5
Input allowed for off-state	mA, V	0.2, 1	1, 3	1, 3	1,3
Nominal output supply voltage	VDC	5	5	15	24
Output supply voltage range	VDC	4.5–6	4.5–6	12–18	20–30
Output supply current at nominal logic voltage	mA	12	12	15	18
Input resistance (R1 in schematic)	ohms	500	1.5 K	1.5 K	1.5 K
Control resistance (Rc in schematic)	ohms	220	220	1 K	2.2 K
Output voltage drop	V @ 50 mA	0.4	0.4	0.4	0.4
Output current (sinking)	mA	50	50	50	50
Output leakage with no input	microamps @ 30 VDC	100	100	100	100
Transistor	V breakdown	30	30	30	30
Temperature: Operating Storage	°C °C	–30 to +70 –30 to +85	–30 to +70 –30 to +85	–30 to +70 –30 to +85	–30 to +70 –30 to +85

\* At 5Vp-p square wave input, 50% duty cycle.

\*\* Not for use with Opto 22 brains.

**OPTO 22**

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