I/O MODULES
G4
ANALOG VOLTAGE INPUT

OPTO 22

DATA SHEET

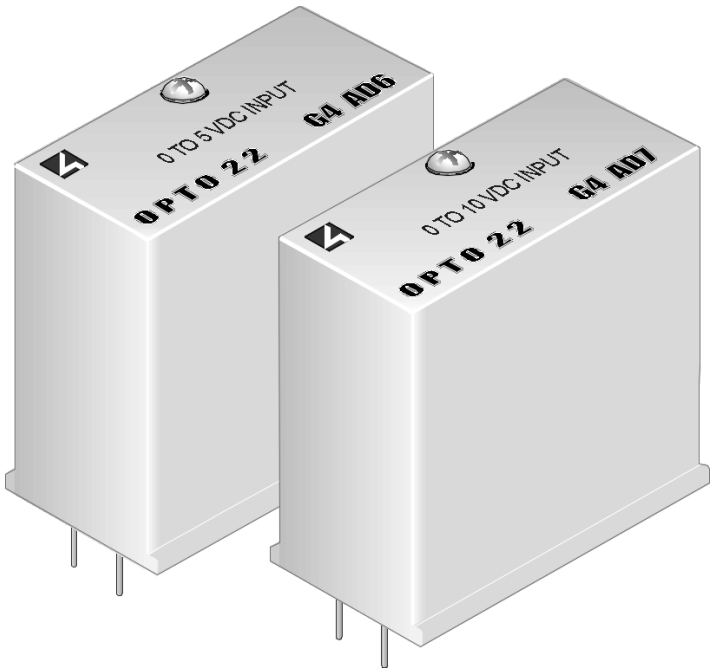
Form 423-050809

Part Numbers	Description
G4AD6	0 to +5 VDC Input
G4AD6HS	0 to +5 VDC Input High Speed
G4AD7	0 to +10 VDC Input
G4AD7HS	0 to +10 VDC Input High Speed
G4AD9	0 to +50 MV Input
G4AD11	-5 to 5 VDC Input
G4AD12	-10 to 10 VDC Input
G4AD13	0 to 100 MV Input
G4AD22	0 to 1 VDC Input

Description

Opto 22's voltage input modules provide a single channel of transformer and optically- isolated voltage-to-digital conversion. The modules offer wide nominal input range and special over/under range capabilities. Complete electrical channel-to-channel isolation is provided, which eliminates troublesome ground loop problems. Modules plug into an Opto 22 Modular I/O controller or an analog I/O brick and are secured by a captive screw. Field connections are made via four terminals on the brick base or Modular controller.

NOTE: Any system using analog sensors and input modules should be calibrated annually for analog signals. To do so, use OptoControl commands "Calculate and Set Analog Offset" and "Calculate and Set Analog Gain."



Specifications

Part Numbers	Nominal Voltage Input	Over/Under Range	Accuracy*	Response Time % Of Scale Change	
				5%	63%
G4AD6	0 to 5 VDC	-0.3 to 11 VDC	± 5 mV	8.4 msec	165 msec
G4AD6HS	0 to 5 VDC	-0.3 to 11 VDC	± 5 mV	< 3 msec	< 3 msec
G4AD7	0 to 10 VDC	-0.6 to 22 VDC	± 10 mV	8.4 msec	165 msec
G4AD7HS	0 to 10 VDC	-0.6 to 22 VDC	± 10 mV	< 3 msec	< 3 msec
G4AD9	0 to 50 mV	-3.0 to 110 mV	± 100 µV	2 msec	36 msec
G4AD11	-5 to +5 VDC	-5.6 to 21 VDC	± 10 mV	8.4 msec	165 msec
G4AD12	-10 to +10 VDC	-11.2 to 42 VDC	± 20 mV	8.4 msec	165 msec
G4AD13	0 to 100 mV	-6 to 220 mV	± 100 µV	2 msec	36 msec
G4AD22	0 to 1 VDC	-60 mV to 2.2 VDC	± 1 mV	< 3 msec	< 10 msec

* Accuracy figure requires use of gain and offset commands.

Resolution	12 bits
Isolation (Transient) Input-to-output Input-to-analog supply	 4,000 Vrms 4,000 Vrms
Ambient Temperature Operating Storage	 -30° to 70° C -40° to 85° C

Connections