

These products are obsolete.

OBSOLETE G4 DIGITAL DC OUTPUT MODULES TECHNICAL NOTE

This technical note contains information you may need about obsolete G4 DC digital output modules you’re still using. Included are part numbers, descriptions, specifications, wiring diagrams, and dimensional drawings. In most cases, these parts have been removed from data sheets because we no longer sell them.

This document includes information on the following obsolete G4 Digital DC Output modules :

Part	Description
G4ODC5FM	G4 DC Output 5–60 VDC, 5 VDC Logic
G4ODC5AFM	G4 DC Output 5–200 VDC, 5 VDC Logic

Note: Part numbers ending in FM were Factory Mutual approved prior to 2024.

- Specifications begin on [page 3](#)
- Dimensions begin on [page 4](#).
- Schematics begin on [page 5](#).

For Help

As always, if you are using Opto 22 products and cannot find the help you need in this technical note, contact Opto 22 Product Support. Product support is free.

Phone: 800-TEK-OPTO
(800-835-6786 toll-free in the U.S. and Canada)
951-695-3080
Monday through Friday,
7 a.m. to 5 p.m. Pacific Time

NOTE: Email messages and phone calls to Opto 22 Product Support are grouped together and answered in the order received.

Email: support@opto22.com

Opto 22 website: www.opto22.com

When calling for technical support, be prepared to provide a complete description of your hardware and operating system to the Product Support engineer.

This information should include:

- accessories installed
- type of power supply
- types of I/O modules and racks used
- third-party devices installed
- how the system is wired



G4 DIGITAL AC OUTPUT MODULES

Note: FM parts are no longer available, please contact Pre-Sales Engineering for more information.

For information about current G4 Digital DC Output Modules, see form 0254, G4 Digital DC Output Modules, Data Sheet.

Opto 22's G4 DC output modules are used to control or switch DC loads. Each module provides up to 4000 volts of optical isolation (transient) between field devices and control logic.

The G4ODC5MA is a special module featuring a manual-on/manual-off/automatic switch, ideal for diagnostic testing of control applications.

Typical applications for DC output modules include switching loads such as DC relays, solenoids, motor starters, lamps, and indicators.

Compatible with Raspberry Pi

The following G4 digital DC output modules can be used with the Digital I/O Carrier Board for Raspberry Pi® (part number [OPTO-P1-40P](#)) to monitor and control industrial devices with your Raspberry Pi:

- G4ODC5
- G4ODC5A
- G4ODC5MA

Raspberry Pi® is a trademark of the Raspberry Pi Foundation.

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SPECIFICATIONS

	Units	G4ODC5FM**	G4ODC5AFM**
Maximum line voltage	VDC	60	200
Output voltage range	VDC	5–60	5–200
Key feature	—	—	—
Current rating:			
At 45 °C ambient	A	3	1
At 70 °C ambient	A	2	0.55
Isolation input-to-output (transient):			
1 ms	volts	4000	4000
1 minute		1500	1500
Off-state leakage at maximum voltage	mA	1	1
Control resistance (R _c in schematic)	Ohms	220	220
One-second surge	A	5	5
Turn-on time	micro-seconds	100	100
Turn-off time	micro-seconds	750	750
Output voltage drop maximum peak	V	1.6	1.6
Nominal logic voltage	VDC	5	5
Logic voltage range	VDC	4–8	4–8
Logic pickup voltage	VDC	4	4
Logic dropout voltage	VDC	1	1
Logic input current at nominal logic voltage	mA	12	12
Temperature:			
Operating	°C	-30 to +70	-30 to +70
Storage	°C	-30 to +85	-30 to +85
Agency Approvals		UL, CE, CSA; UKCA	UL, CE, CSA; UKCA

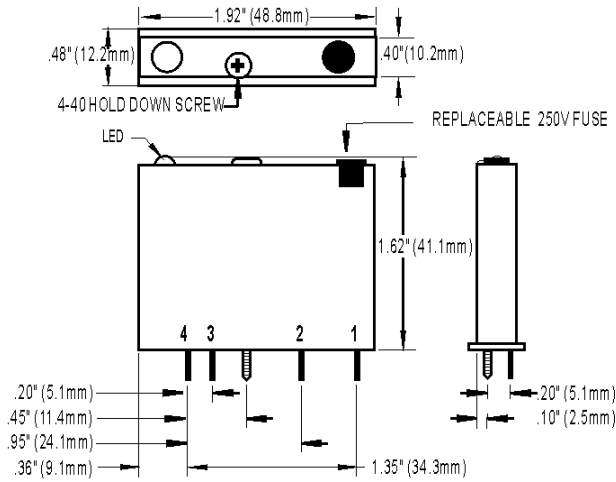
* Compatible with Raspberry Pi

** Obsolete, these parts are no longer available, please contact Pre-Sales Engineering for more information.

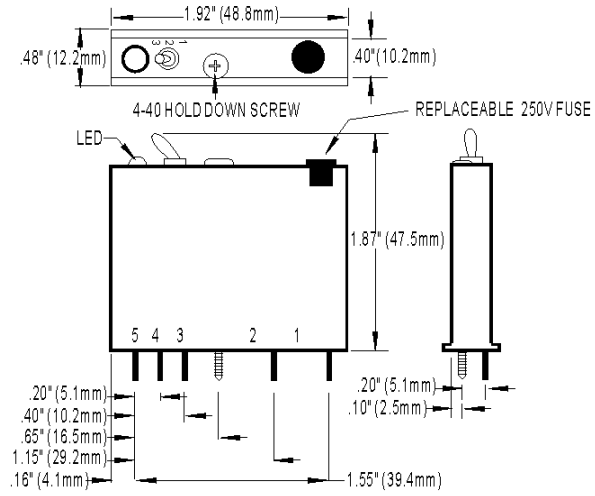
*** Not for use with Opto 22 brains

DIMENSIONS

All Models Except MA



MA Models

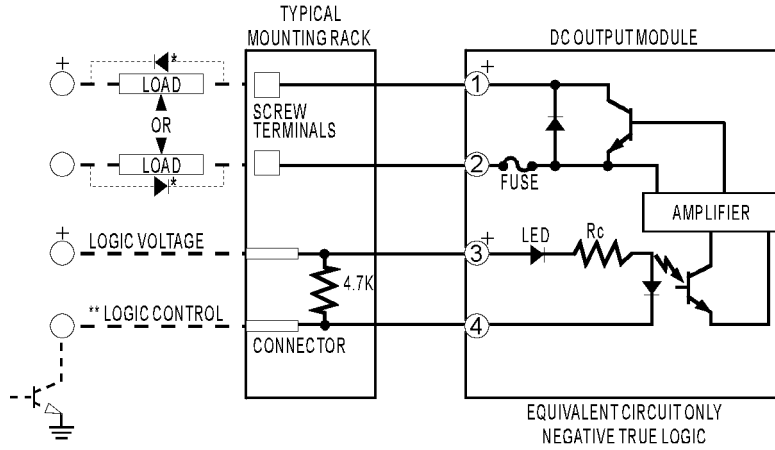


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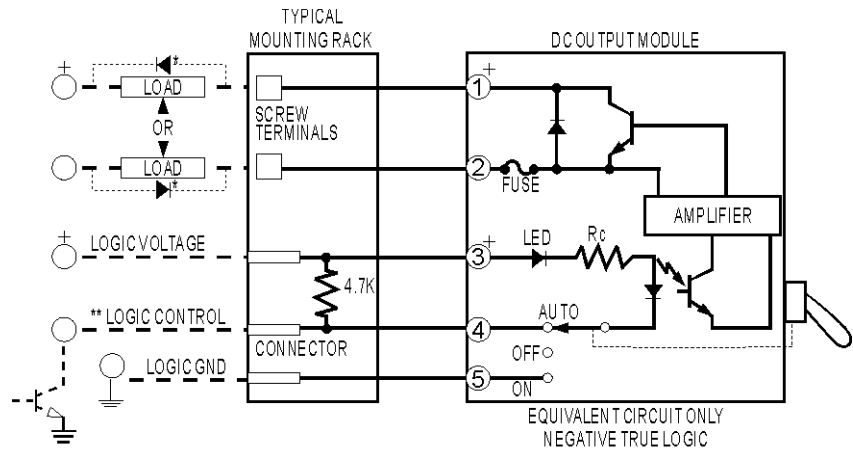
SCHEMATICS

All Models Except MA



* Commutation diode must be used on inductive loads. Typically, use diode IN4005.
** Control line is compatible with totem pole or tri-state output device.

MA Models



* Commutation diode must be used on inductive loads. Typically, use diode IN4005.
** Control line is compatible with totem pole or tri-state output device.