Features

- Four channels per module
- Convenient pluggable wiring terminals; accepts 22 to 14 AWG wire
- Powered by a single 5-volt supply
- Channel-specific LEDs
- Operating temperature: -20 to 70 °C
- UL and CE approved (most modules); Factory Mutual approved (part numbers ending in FM)



SNAP Digital Output Modules

can guickly check field device wiring. These modules each

The SNAP-OAC5-i, SNAP-ODC5-i, and SNAP-ODC5A-i modules

contain four isolated channels.

provide four isolated output channels.

Description

Opto 22 SNAP I/O digital output modules are part of the SNAP PAC System.

Choose from AC or DC models. Optical isolation on all solidstate modules provides 4,000 volts of transient (4000 V for

1 ms) protection for sensitive control electronics from industrial field signals.

Most SNAP digital modules have removable top-mounted connectors to provide easy access for field wiring. All operate on 5 VDC control logic. Each digital module features integral channel-specific LEDs for convenient troubleshooting and maintenance.

Each module is factory tested twice before shipment, and most modules are UL and CE approved. In addition, part numbers ending in FM are Factory Mutual approved.

SNAP output modules are used to switch up to four separate AC or DC loads. Output modules that are fused use a standard fuse with a convenient handle for easy replacement. DC outputs are available in either a source or sink configuration. AC outputs are zero voltage turn on and zero current turn off for transient-free switching.

SNAP-OAC5MA and SNAP-ODC5MA are special modules featuring manualon/manual-off/automatic switches, ideal for diagnostic testing of control applications. The switches override output from the application, so you Part Numbers

See Description Part pages SNAP-OAC5 SNAP 4-channel 12-250 VAC output, 5 VDC logic 3, 5 SNAP 4-channel isolated 12-250 VAC output, 5 VDC logic 3, 6 SNAP-OAC5MA with manual/auto switches SNAP-OAC5FM SNAP 4-channel 12-250 VAC output, 5 VDC logic 4.5 SNAP-OAC5-i SNAP 4-channel isolated 12-250 VAC output, 5 VDC logic 3, 7 SNAP-OAC5-iFM SNAP 4-channel isolated 12-250 VAC output, 5 VDC logic 4, 7 SNAP-ODC5SRC SNAP 4-channel 5-60 VDC output, 5 VDC logic source 8, 12 SNAP-ODC5SRCFM SNAP 4-channel 5-60 VDC output, 5 VDC logic source 10, 12 SNAP-ODC5SNK SNAP 4-channel 5-60 VDC output, 5 VDC logic sink 8, 13 SNAP-ODC5SNKFM SNAP 4-channel 5-60 VDC output, 5 VDC logic sink 10, 13 SNAP-ODC5ASNK SNAP 4-channel 5-200 VDC output, 5 VDC logic sink 9, 13 SNAP 4-channel isolated 5-60 VDC output, 5 VDC logic SNAP-ODC5MA 9, 14 with manual/auto switches SNAP-ODC5-i SNAP 4-channel isolated 5-60 VDC output, 5 VDC logic 9, 15 SNAP-ODC5-iFM SNAP 4-channel isolated 5-60 VDC output, 5 VDC logic 11, 15 SNAP-ODC5A-i SNAP 4-channel isolated 5-200 VDC output, 5 VDC logic 9, 15 SNAP-ODC5A-iFM SNAP 4-channel isolated 5-200 VDC output, 5 VDC logic 11, 15 SNAP-RETN4 SNAP 4-module retention rail (OEM) ------SNAP-RETN4B SNAP 4-module retention rail, 25-pack (OEM) -----SNAP-RETN6 SNAP 6-module retention rail (OEM) ------SNAP-RETN6B SNAP 6-module retention rail, 25-pack (OEM) -----SNAP-FUSE4AB SNAP 4-amp fuse, 25-pack -----SNAP-MODFUSEH SNAP digital output module fuse holder, 10-pack -----

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For Ethernet-based applications requiring higher density of digital I/O points, see Opto 22 form #1556, the SNAP High-Density Digital Module Data Sheet.

I/O Processor Compatibility

SNAP digital output modules are compatible with all SNAP PAC brains and rack-mounted controllers, including both standard wired models and Wired+Wireless[™] models.

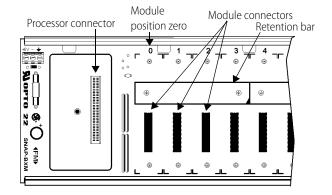
Notes for legacy hardware: SNAP digital output modules are also compatible with SNAP Ultimate, SNAP Ethernet, and SNAP Simple brains, as well as other SNAP brains such as the serial B3000 and the B3000HA. These modules can also be used on B-series and M-series mounting racks.

Installation

The following diagram shows part of a SNAP mounting rack. The rack is shown without screw connectors.

Modules snap securely into place in the row of connectors on the rack. Each module connector has a number. Digital output modules and other types of SNAP I/O modules are mounted on the module connectors starting at module position zero.

NOTE: Check the data sheet or user's guide for the brain or onthe-rack controller you are using to determine module features available and any restrictions on module placement.



- 1. Place the rack so that the module connector numbers are right-side up, with zero on the left, as shown in the diagram above. (If your rack has screw connectors, the screw connectors will be at the bottom.)
- 2. Position the module over the module connector, aligning the small slot at the base of the module with the retention bar on the rack. When positioning modules next to each other, be sure to align the male and female module keys at the tops of the modules before snapping a module into position.
- **3.** With the module correctly aligned, push on the module to snap it into place.
- (Optional) Use standard 4-40 x 1/2 truss-head Phillips hold-down screws to secure both sides of each module.
 CAUTION: Do not over-tighten screws.
- 5. Follow the wiring diagrams beginning on page 5 to attach modules to the devices they monitor.

Modules require a special tool (provided) for removal.

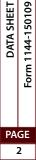
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Specifications—AC Modules

	SNAP-OAC5	SNAP-OAC5MA	SNAP-OAC5-i
Key Feature		Diagnostic switches Four isolated channels	Four isolated channels
Torque, hold-down screws	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)
Field Side Ratings (each channel)			• •
Line Voltage - Range	12–250 VAC	12–250 VAC	12–250 VAC
Line Voltage - Nominal	120/240 VAC	120/240 VAC	120/240 VAC
Current Rating 0 °C to 70 °C Ambient	3 amps per module	3 amps per module	3 amps per module
One Cycle Surge	80 amps peak (50/60 Hz)	80 amps peak (50/60 Hz)	80 amps peak (50/60 Hz)
Minimum Load Current	20 mA	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps
Off-state Leakage at Nominal Voltage - 60 Hz	2.5 mA @ 240 VAC 1.25 mA @ 120 VAC	2.5 mA @ 240 VAC 1.25 mA @ 120 VAC	2.5 mA @ 240 VAC 1.25 mA @ 120 VAC
Peak Blocking Voltage	500 V	500 V	500 V
Operating Frequency	25–65 Hz	25–65 Hz	25–65 Hz
dV/ dt - Off-state	200 volts/msec	200 volts/msec	200 volts/msec
dV/ dt - Commutating	Snubbed for rated 0.5 power fac- tor load	Snubbed for rated 0.5 power factor load	Snubbed for rated 0.5 power factor load
Fuse (Common to all Channels)	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part: BEL 5HF4 Opto 22 Part: SNAP-FUSE4AB	Has four isolated channels. User must provide own fus- ing.	Has four isolated channels. User must provide own fus- ing.
Channel-to-channel isolation	Not applicable	300 VAC (1500 V transient)	300 VAC (1500 V transient)
Logic Side Ratings			·
Pickup Voltage	4 V @ 5.5 mA	4 V @ 5.5 mA	4 V @ 5.5 mA
Dropout Voltage	1 VDC	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC
Logic Supply Current	50 mA maximum	50 mA maximum	50 mA maximum
Module Ratings			
Number of Channels Per Module	4	4	4
Turn-on Time	0.5 cycle maximum (zero volts crossover)	0.5 cycle maximum (zero volts crossover)	0.5 cycle maximum (zero volts crossover)
Turn-off Time	0.5 cycle maximum (zero current crossover)	0.5 cycle maximum (zero current crossover)	0.5 cycle maximum (zero current crossover)
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 ° to 70 °C, operating -40 ° to 85 °C, storage	-20 ° to 70 °C, operating -40 ° to 85 °C, storage	-20 ° to 70 °C, operating -40 ° to 85 °C, storage
Wire size range	22 to 14 AWG	22 to 14 AWG	22 to 14 AWG
Agency Approvals	UL, CE, CSA, RoHS, DFARS	UL, CE, RoHS, DFARS	UL, CE, RoHS, DFARS
Warranty	Lifetime	30 months	Lifetime

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Specifications—AC Modules (continued)

	SNAP-OAC5-FM	SNAP-OAC5-i-FM
Key Feature	Factory Mutual approved	Four isolated channels Factory Mutual approved
Torque, hold-down screws	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)
Field Side Ratings (each channel)		
Line Voltage - Range	12–250 VAC	12–250 VAC
Line Voltage - Nominal	120/240 VAC	120/240 VAC
Current Rating 0 °C to 70 °C Ambient	3 amps per module	3 amps per module
One Cycle Surge	80 amps peak (50/60 Hz)	80 amps peak (50/60 Hz)
Minimum Load Current	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps
Off-state Leakage at Nominal Voltage - 60 Hz	2.5 mA @ 240 VAC 1.25 mA @ 120 VAC	2.5 mA @ 240 VAC 1.25 mA @ 120 VAC
Peak Blocking Voltage	500 V	500 V
Operating Frequency	25–65 Hz	25–65 Hz
dV/ dt - Off-state	200 volts/msec	200 volts/msec
dV/ dt - Commutating	Snubbed for rated 0.5 power factor load	Snubbed for rated 0.5 power factor load
Fuse (Common to all Channels)	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part No. BEL 5HF4 Opto 22 Part No. SNAP-FUSE4AB	Has four isolated channels. User must provide own fusing.
Channel-to-channel isolation	Not applicable	300 VAC (1500 V transient)
Logic Side Ratings		
Pickup Voltage	4 V @ 5.5 mA	4 V @ 5.5 mA
Dropout Voltage	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC
Logic Supply Current	50 mA maximum	50 mA maximum
Module Ratings		
Channels Per Module	4	4
Turn-on Time	0.5 cycle maximum (zero volts crossover)	0.5 cycle maximum (zero volts crossover)
Turn-off Time	0.5 cycle maximum (zero current crossover)	0.5 cycle maximum (zero current crossover)
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 ° to 70 °C, operating -40 ° to 85 °C, storage	-20 ° to 70 °C, operating -40 ° to 85 °C, storage
Wire size range	22 to 14 AWG	22 to 14 AWG
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

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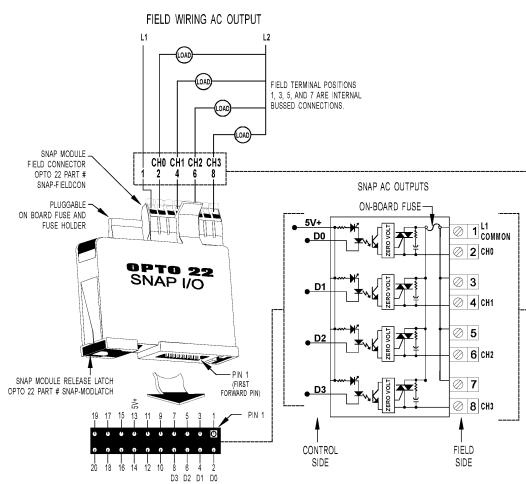
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Schematics

SNAP-OAC5 Output Module

Part Number	Description
SNAP-OAC5	4-channel AC output 12-250 VAC 5 VDC logic
SNAP-OAC5FM	4-channel AC output 12–250 VAC 5 VDC logic, Factory Mutual approved



SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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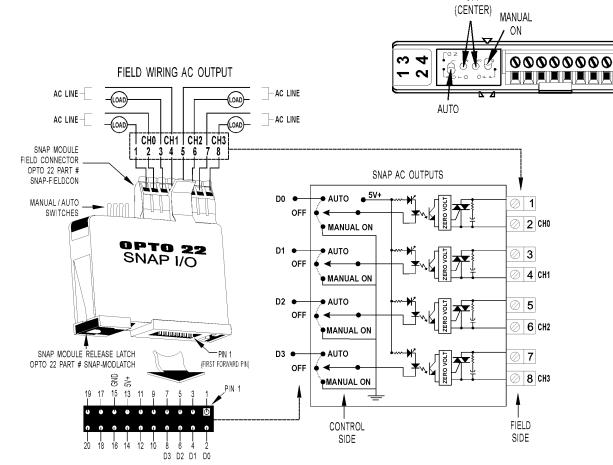
SNAP Digital Output Modules

Schematics

SNAP-OAC5MA Output Module With Manual/Auto Switches

Part Number	Description
SNAP-OAC5MA	4-channel isolated AC output 12–250 VAC, 5 VDC logic, with manual/auto switch

OFF

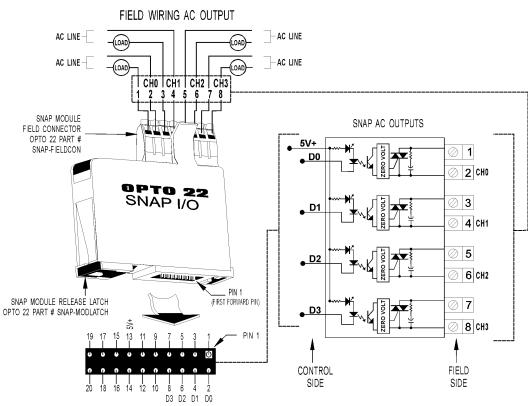


SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

Schematics

SNAP-OAC5i Isolated Output Module

Part Number	Description
SNAP-OAC5-i	4-channel isolated AC output 12–250 VAC, 5 VDC logic
SNAP-OAC5-iFM	4-channel isolated AC output 12–250 VAC, 5 VDC logic, Factory Mutual approved



SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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Specifications—DC Modules

	SNAP-ODC5SRC	SNAP-ODC5SNK
Key Feature	Load sourcing	Load sinking
Torque, hold-down screws	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)
Field Side Ratings (each channel)	I	
Line Voltage - Range	5–60 VDC	5-60 VDC
Line Voltage - Nominal	5–48 VDC	5–48 VDC
Current Rating 0 °C to 70 °C Ambient	3 amps per module	3 amps per module
Surge Current	5 amps peak for 1 second	5 amps peak for 1 second
Minimum Load	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps
Off-state Leakage	1 mA @ 60 VDC	1 mA @ 60 VDC
Peak Blocking Voltage	60 VDC	60 VDC
Fuse (Common to all Channels)	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part No. BEL 5HF4 Opto 22 Part SNAP-FUSE4AB	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part No. BEL 5HF4 Opto 22 Part SNAP-FUSE4AB
Channel-to-channel isolation	Not applicable	Not applicable
Logic Side Ratings		
Pickup Voltage	4 V @ 5.5 mA	4 V @ 5.5 mA
Dropout Voltage	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC
Logic Supply Current	50 mA maximum	50 mA maximum
Module Ratings		
Number of Channels Per Module	4	4
Turn-on Time	100 usec	100 usec
Turn-off Time	750 usec	750 usec
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 to 70 °C, operating -40 to 85 °C, storage	-20 to 70 °C, operating -40 to 85 °C, storage
Wire size range	22 to 14 AWG	22 to 14 AWG
Agency Approvals	UL, CE, CSA, RoHS, DFARS	UL, CE, CSA, RoHS, DFARS
Warranty	Lifetime	Lifetime

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Specifications—DC Modules (continued)

	SNAP-ODC5MA	SNAP-ODC5-i	SNAP-ODC5A-i	SNAP-ODC5ASNK
Key Feature	Diagnostic switches Four isolated channels	Four isolated channels	Four isolated channels	Load sinking
Torque, hold-down screws	4 in-lb (0.45 N-m)			
Torque, connector screws	5.26 in-lb (0.6 N-m)			
Field Side Ratings (each cha	annel)			
Line Voltage - Range	5–60 VDC	5–60 VDC	5–200 VDC	5–200 VDC
Line Voltage - Nominal	5–48 VDC	5–48 VDC	5–200 VDC	5–200 VDC
Current Rating 0 °C to 70 °C Ambient	2 amps per module 0.5 amps per channel	3 amps per module	3 amps per module	3 amps per module
Surge Current	1.5 amps peak for 1 second	5 amps peak for 1 second	5 amps peak for 1 second	5 amps peak for 1 second
Minimum Load	20 mA	20 mA	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps			
Off-state Leakage	1 mA @ 60 VDC	1 mA @ 60 VDC	1 mA @ 200 VDC	1 mA @ 200 VDC
Peak Blocking Voltage	60 VDC	60 VDC	200 VDC	200 VDC
Fuse (Common to all Channels)	Has four isolated channels. User must provide own fusing.	Has four isolated channels. User must provide own fusing.	Has four isolated channels. User must provide own fusing.	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part: BEL 5HF4 Opto 22 Part: SNAP- FUSE4AB
Channel-to-channel isolation	300 VAC (1500 V transient)	300 VAC (1500 V transient)	300 VAC (1500 V transient)	Not applicable
Logic Side Ratings			·	
Pickup Voltage	4 V @ 5.5 mA			
Dropout Voltage	1 VDC	1 VDC	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC			
Logic Supply Current	50 mA maximum	50 mA maximum	50 mA maximum	50 mA maximum
Module Ratings				
Number of Channels Per Module	4	4	4	4
Turn-on Time	100 usec	100 usec	100 usec	100 usec
Turn-off Time	750 usec	750 usec	750 usec	750 usec
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 to 70 °C, operating -40 to 85 °C, storage	-20 to 70 °C, operating -40 to 85 °C, storage	-20 to 70 °C, operating -40 to 85 °C, storage	-20 to 70 °C, operating -40 to 85 °C, storage
Wire size range	22 to 14 AWG			
Agency Approvals	UL, CE, RoHS, DFARS			
Warranty	30 months	Lifetime	Lifetime	Lifetime

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Specifications—DC Modules (continued)

	SNAP-ODC5SRCFM	SNAP-ODC5SNKFM
Key Feature	Factory Mutual approved	Factory Mutual approved
Torque, hold-down screws	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)
Field Side Ratings (each channel		
Line Voltage - Range	5–60 VDC	5-60 VDC
Line Voltage - Nominal	5–48 VDC	5–48 VDC
Current Rating 0°C to 70°C Ambi- ent	3 amps per module	3 amps per module
Surge Current	5 amps peak for 1 second	5 amps peak for 1 second
Minimum Load	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps
Off-state Leakage	1 mA @ 60 VDC	1 mA @ 60 VDC
Peak Blocking Voltage	60 VDC	60 VDC
Fuse (Common to all Channels)	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part No. BEL 5HF4 Opto 22 Part SNAP-FUSE4AB	250 VAC - 4A 5x20 mm Fast-acting Bell Fuse Part No. BEL 5HF4 Opto 22 Part SNAP-FUSE4AB
Logic Side Ratings		
Pickup Voltage	4 V @ 5.5 mA	4 V @ 5.5 mA
Dropout Voltage	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC
Logic Supply Current	50 mA maximum	50 mA maximum
Module Ratings		
Number of Channels Per Module	4	4
Turn-on Time	100 usec	100 usec
Turn-off Time	750 usec	750 usec
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 to 70 °C, operating -40 to 85 °C, storage	-20 to 70 °C, operating -40 to 85 °C, storage
Wire size range	22 to 14 AWG	22 to 14 AWG
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

SNAP Digital Output Modules **OPTO 22**

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Specifications—DC Modules (continued)

	SNAP-ODC5-iFM	SNAP-ODC5A-iFM
Key Feature	Four isolated channels Factory Mutual approved	Four isolated channels Factory Mutual approved
Torque, hold-down screws	4 in-lb (0.45 N-m)	4 in-lb (0.45 N-m)
Torque, connector screws	5.26 in-lb (0.6 N-m)	5.26 in-lb (0.6 N-m)
Field Side Ratings (each channel)		<u>I</u>
Line Voltage - Range	5–60 VDC	5–200 VDC
Line Voltage - Nominal	5–48 VDC	5–200 VDC
Current Rating 0°C to 70°C Ambient	3 amps per module	3 amps per module
Surge Current	5 amps peak for 1 second	5 amps peak for 1 second
Minimum Load	20 mA	20 mA
Output Voltage Drop	1.6 volts max.@ 0.75 amps	1.6 volts max.@ 0.75 amps
Off-state Leakage	1 mA @ 60 VDC	1 mA @ 60 VDC
Peak Blocking Voltage	60 VDC	200 VDC
Fuse (Common to all Channels)	Has four isolated channels. User must provide own fusing.	Has four isolated channels. User must provide own fusing.
Logic Side Ratings		
Pickup Voltage	4 V @ 5.5 mA	4 V @ 5.5 mA
Dropout Voltage	1 VDC	1 VDC
Control Resistance	220 ohms	220 ohms
Logic Supply Voltage	5 VDC ± 0.25 VDC	5 VDC ± 0.25 VDC
Logic Supply Current	50 mA maximum	50 mA maximum
Module Ratings		
Number of Channels Per Module	4	4
Turn-on Time	100 usec	100 usec
Turn-off Time	750 usec	750 usec
Isolation (Field Side to Logic Side)	4,000 volts (transient)	4,000 volts (transient)
Temperature	-20 ° to 70 °C, operating -40 ° to 85 °C, storage	-20 ° to 70 °C, operating -40 ° to 85 °C, storage
Wire size range	22 to 14 AWG	22 to 14 AWG
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

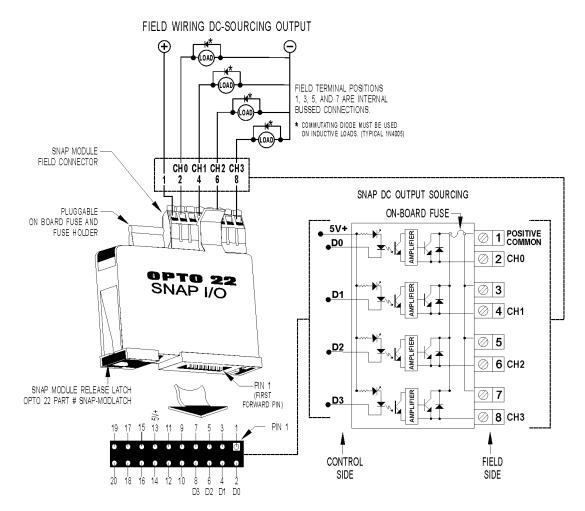
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Schematics

SNAP-ODC5SRC Output Module— Sourcing

Part Number	Description
SNAP-ODC5SRC	4-channel DC output 5-60 VDC logic source
SNAP-ODC5SRCFM	4-channel DC output 5–60 VDC logic source, Factory Mutual approved



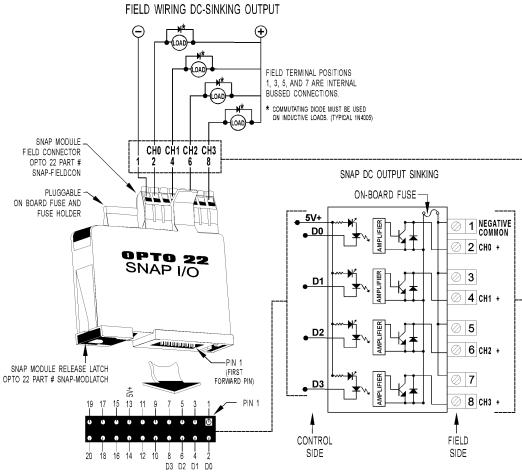
SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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Schematics

SNAP-ODC5SNK and SNAP-ODC5ASNK Output Modules—Sinking

Part Number	Description
SNAP-ODC5SNK	4-channel DC output 5-60 VDC logic sink
SNAP-ODC5SNKFM	4-channel DC output 5–60 VDC logic sink, Factory Mutual approved
SNAP-ODC5ASNK	4-channel DC output 5-200 VDC logic sink



SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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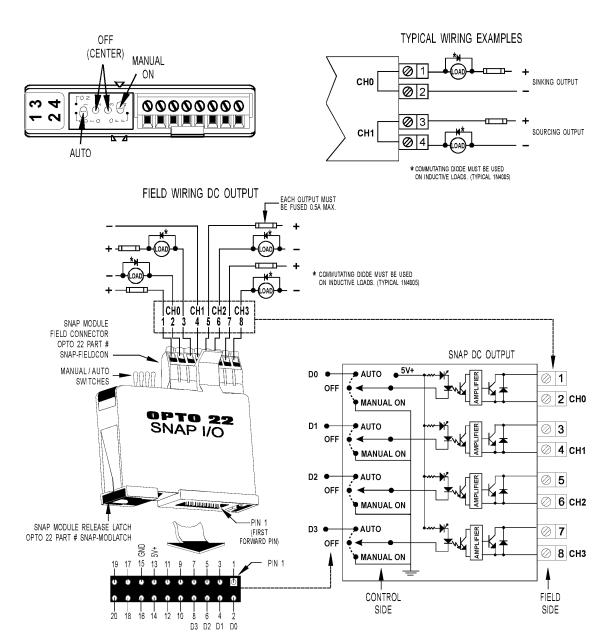
DATA SHEET

SNAP Digital Output Modules

Schematics

SNAP-ODC5MA Output Module with Manual/Auto Switches

Part Number	Description
SNAP-ODC5MA	4-channel isolated DC output 5–60 VDC, 5 VDC logic, with manual/auto switches

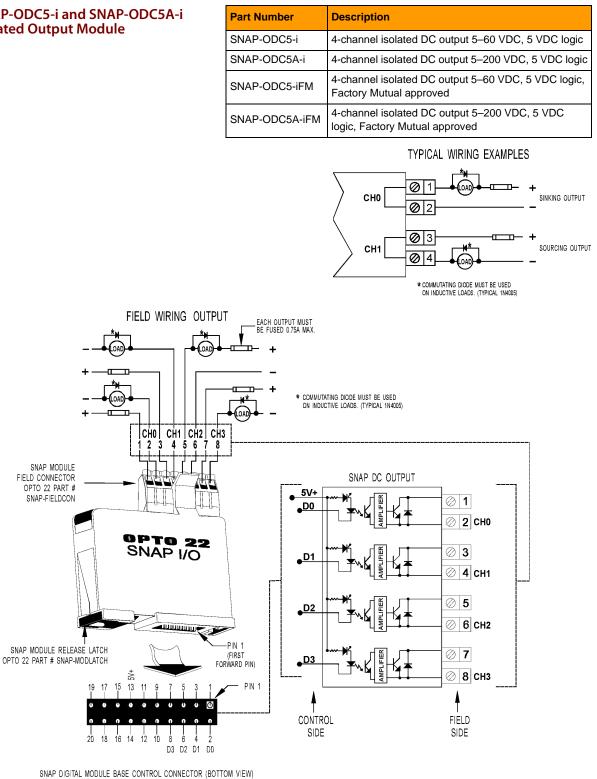


SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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Schematics

SNAP-ODC5-i and SNAP-ODC5A-i **Isolated Output Module**



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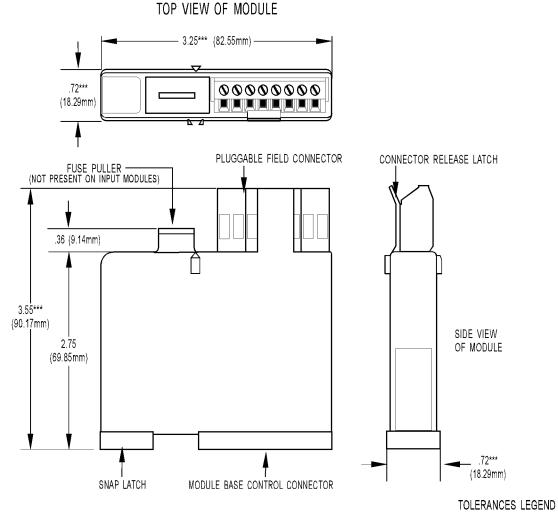
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Dimensional Drawing

All Models Except MA



++- .010" ++ +- .020" +++- .030" ++++ .060" NO + REFERENCE ONLY

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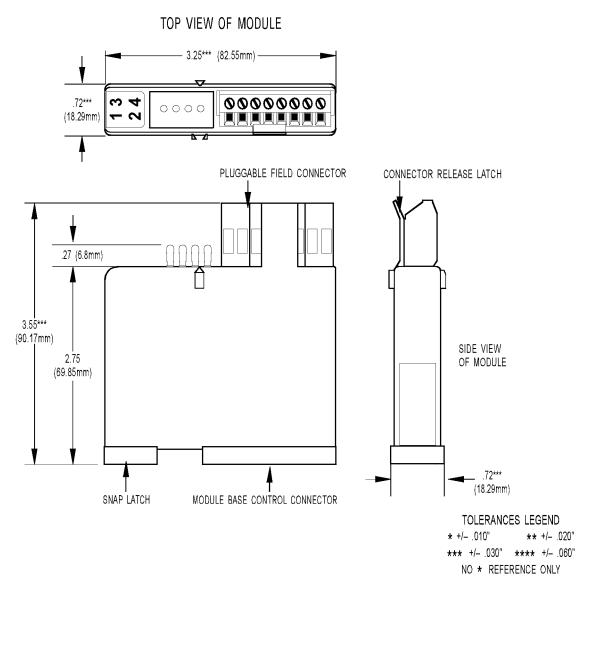
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Dimensional Drawing

All MA Models



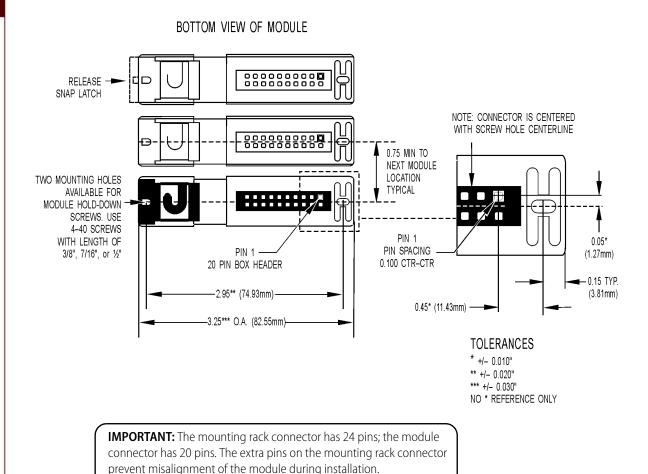
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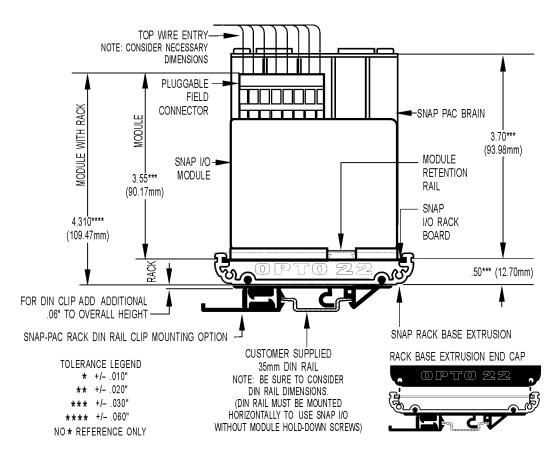
Dimensional Drawing

All Models



Dimensional Drawing

All Models



SNAP Digital Module Mounted on SNAP Rack

0 P T O

N N

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Products

Opto 22 develops and manufactures reliable, flexible, easy-to-use hardware and software products for industrial automation, energy management, remote monitoring, and data acquisition applications.

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groov puts your system on your mobile device. With zero programming, you can build mobile operator interfaces to monitor and control systems from Allen-Bradley, Siemens, Schneider Electric, Modicon, and many more. Web-based *groov* puts mobile-ready gadgets at your fingertips. Tag them from your existing tag database, and they automatically scale for use on any device with a modern web browser. See groov.com for more information and your free trial.

SNAP PAC System

Designed to simplify the typically complex process of selecting and applying an automation system, the SNAP PAC System consists of four integrated components:

- SNAP PAC controllers
- PAC Project[™] Software Suite
- SNAP PAC brains
- SNAP I/O¹

SNAP PAC Controllers

Programmable automation controllers

(PACs) are multifunctional, modular controllers based on open standards.

Opto 22 has been manufacturing PACs for over two decades. The standalone SNAP PAC S-series, the rack-mounted SNAP PAC R-series, and the software-based SoftPAC[™] all handle a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

SNAP PACs are based on open Ethernet and Internet Protocol (IP) standards, so you can build or extend a system easily, without the expense and limitations of proprietary networks and protocols. Wired+Wireless[™] models are also available.

PAC Project Software Suite

Opto 22's PAC Project Software Suite provides full-featured, costeffective control programming, HMI (human machine interface) development and runtime, OPC server, and database connectivity software for your SNAP PAC System.

Control programming includes both easy-to-learn flowcharts and optional scripting. Commands are in plain English; variables and I/ O point names are fully descriptive.

PAC Project Basic offers control and HMI tools and is free for download on our website, www.opto22.com. PAC Project

Professional, available for separate purchase, adds one SoftPAC, OptoOPCServer, OptoDataLink, options for controller redundancy or segmented networking, and support for legacy Opto 22 serial *mistic*[™] I/O units.

SNAP PAC Brains

While SNAP PAC controllers provide central control and data distribution, SNAP PAC brains provide distributed intelligence for I/O processing and communications. Brains offer analog, digital, and serial functions, including thermocouple linearization; PID loop control; and optional high-speed digital counting (up to 20 kHz), quadrature counting, TPO, and pulse generation and measurement.

SNAP I/O

I/O provides the local connection to sensors and equipment. Opto 22 SNAP I/O offers 1 to 32 points of reliable I/O per module,

depending on the type of module and your needs. Analog, digital, and serial modules are all mixed on the same mounting rack and controlled by the same processor (SNAP PAC brain or rack-mounted controller).

Quality

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California. Because we test each product twice before it leaves our factory, rather than only testing a sample of each batch, we can guarantee most solid-state relays and optically isolated I/O modules for life.

Free Product Support

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products. Our staff of support engineers represents decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Additional support is always available on our website: how-to videos, OptoKnowledgeBase, self-training guide, troubleshooting and user's guides, and OptoForums.

In addition, hands-on training is available for free at our Temecula, California headquarters, and you can register online.

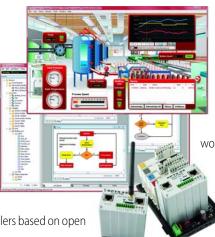
Purchasing Opto 22 Products

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 or 951-695-3000, or visit our website at www.opto22.com. N

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