Features

- Four channels per module
- Convenient pluggable wiring terminals; accepts up to 14 AWG wire
- Powered by a single 5-volt supply
- Channel-specific LEDs
- Operating temperature: 0 to 70 °C
- UL and CE approved (most modules); Factory Mutual approved (part numbers ending in FM)

Description

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

Customers can choose from AC or DC models. Optical isolation on all solid-state modules provides 4,000 volts of transient

(4000 V for 1 ms) protection for sensitive control electronics from industrial field signals.

All 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 勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

SNAP Digital Output Modules

can quickly check field device wiring. These modules each contain four isolated channels.

The SNAP-OAC5-i, SNAP-ODC5-i, and SNAP-ODC5A-i modules provide four isolated output channels.

Part	Description	See pages
SNAP-OAC5	SNAP 4-channel 12–250 VAC output, 5 VDC logic	3, 5
SNAP-OAC5MA	SNAP 4-channel isolated 12–250 VAC output, 5 VDC logic with manual/auto switches	3, 6
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-ODC5MA	SNAP 4-channel isolated 5–60 VDC output, 5 VDC logic with manual/auto switches	9, 14
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)	<u>411</u>
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	

t Modules



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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.

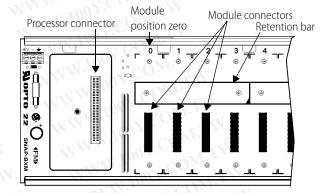
Notes for legacy hardware: SNAP digital output modules are also compatible with SNAP Ultimate, SNAP Ethernet, and SNAP Simple brains, as well as other SNAP brains such as the serial B3000 and the B3000HA. These modules can also be used on B-series and M-series mounting racks.

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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C DATA SHEET Form 1144-110428

SNAP Digital Output Modules WWW.100Y.COM.TW

Specifications—AC Modules

Specifications—AC Modules						
	SNAP-OAC5	SNAP-OAC5MA	SNAP-OAC5-i			
Key Feature	JOY.COM.TW	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	24–250 VAC	24–250 VAC	24–250 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 am			
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 pov 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 channe User must provide own fu 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	COM W	NW. TONY.COM	N WWW.			
Number of Channels Per Module	4 00	4 N. COM	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	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage			
Agency Approvals	UL, CE, CSA, RoHS, DFARS	UL, CE, RoHS, DFARS	UL, CE, RoHS, DFARS			
Warranty	Lifetime	30 months	Lifetime			

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SNAP Digital Output Modules



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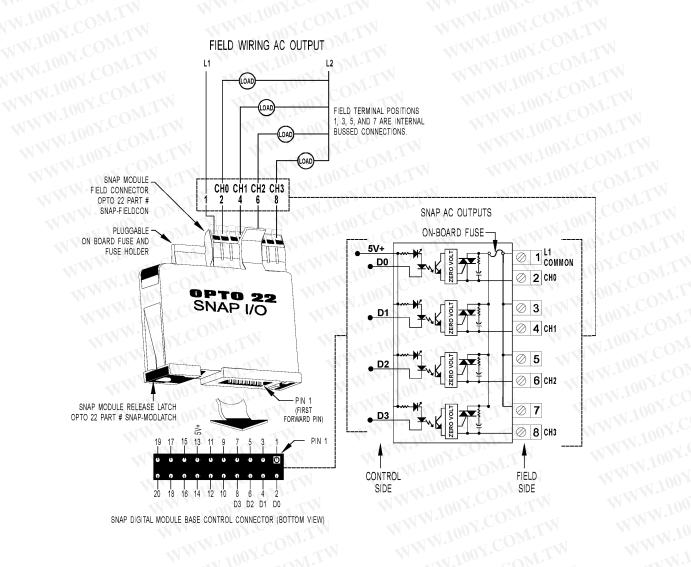
WWW.100Y.COM.TW 100Y.COM.TW Specifications—AC Modules (continued)

	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)	COMPLET WW.100	CON.1
ine Voltage - Range	24–250 VAC	24–250 VAC
ine Voltage - Nominal	120/240 VAC	120/240 VAC
Current Rating) °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	WW.100 COM.	WWW.Ioo
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	WWW.Inter.CON	L. WWW
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)
Femperature	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

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	



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SNAP Digital Output Modules

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Schematics

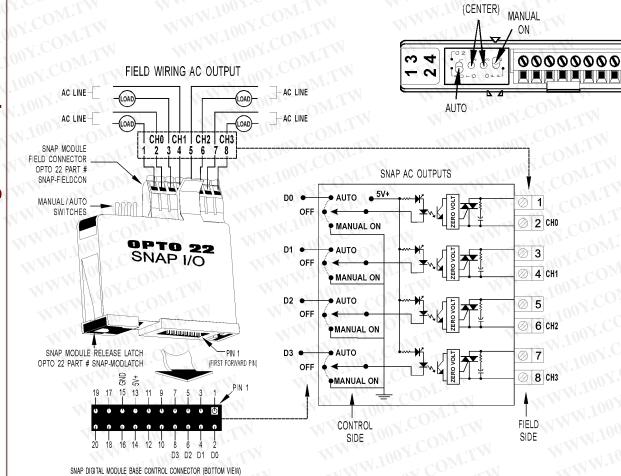
SNAP-OAC5MA Output Module With Manual/Auto Switches WW.100Y.COM

SNAP Digital Output Modules

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

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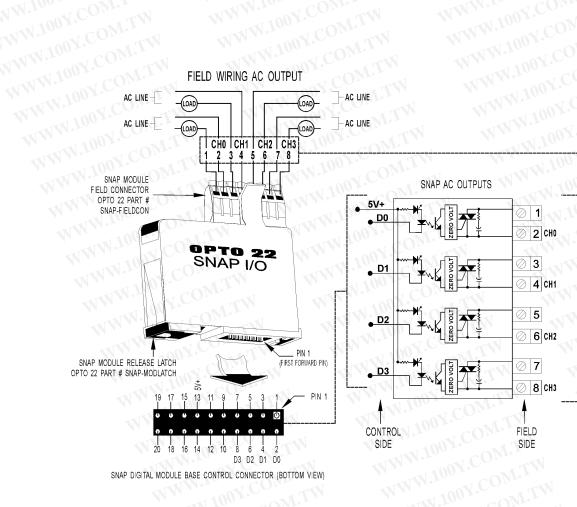
SNAP Digital Output Modules WWW.100Y.COM.

Schematics

SNAP-OAC5i Isolated Output Module WWW.100Y.COM.TW

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
WW	N.100Y.COM.TW

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SNAP DIGITAL MODULE BASE CONTROL CONNECTOR (BOTTOM VIEW)

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WWW.100Y.COM.TW 00Y.COM.TW 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)	N.COMPTW	WWW.
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
_ogic Side Ratings	W	M.T.
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	1.10	CONTRACT
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	0 to 70 °C, operating -30 to 85 °C, storage	0 to 70 °C, operating -30 to 85 °C, storage
Agency Approvals	UL, CE, CSA, RoHS, DFARS	UL, CE, CSA, RoHS, DFARS
Warranty	Lifetime	Lifetime

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Specifications—DC Modules (continued)

I.T.Y WY	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	nnel)	N.I.W.	W.100 TOOM	
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 m 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	V WILL	1001.00	N WIN	1007.0
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	N.C. TW	WW 100	M.TW	W
Number of Channels Per Module	4Y.COMITW	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	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage
Agency Approvals	UL, CE, RoHS, DFARS	UL, CE, RoHS, DFARS	UL, CE, RoHS, DFARS	UL, CE, RoHS, DFAR
Warranty	30 months	Lifetime	Lifetime	Lifetime

22 **SNAP Digital Output Modules**

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WWW.100Y.COM.TW 100Y.COM.TW **SNAP Digital Output Modules** WWW.100Y.

WWW.100Y.COM.TW 00Y.COM.TW 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	N. N. COMMENT	W. CONTRACT
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
Logic Side Ratings	W.1002 COM.1	COM COM
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	LTW WW.100 CC	M.I.
Number of Channels Per Module	4.1	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	0 to 70 °C, operating -30 to 85 °C, storage	0 to 70 °C, operating -30 to 85 °C, storage
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

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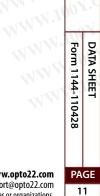
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Specifications—DC Modules (continued)

1.1. N	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) 1001. M.T.	W.100
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	YOU.	COM WY
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	LM MMM.	100Y.COMTW
Number of Channels Per Module	4	4 ON COM
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	0 ° to 70 °C, operating -30 ° to 85 °C, storage	0 ° to 70 °C, operating -30 ° to 85 °C, storage
Agency Approvals	CE, FM, RoHS, DFARS	CE, FM, RoHS, DFARS
Warranty	Lifetime	Lifetime

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Schematics

Sourcing

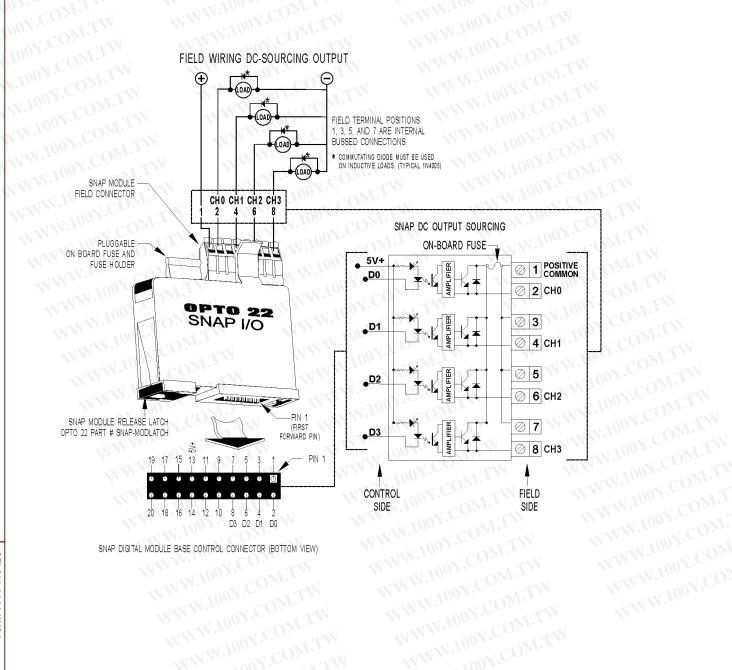
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SNAP-ODC5SRC Output Module—

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Part Number	Description
SNAP-ODC5SRC	4-channel DC output 5-60 VDC logic source

Factory Mutual approved

SNAP-ODC5SRCFM

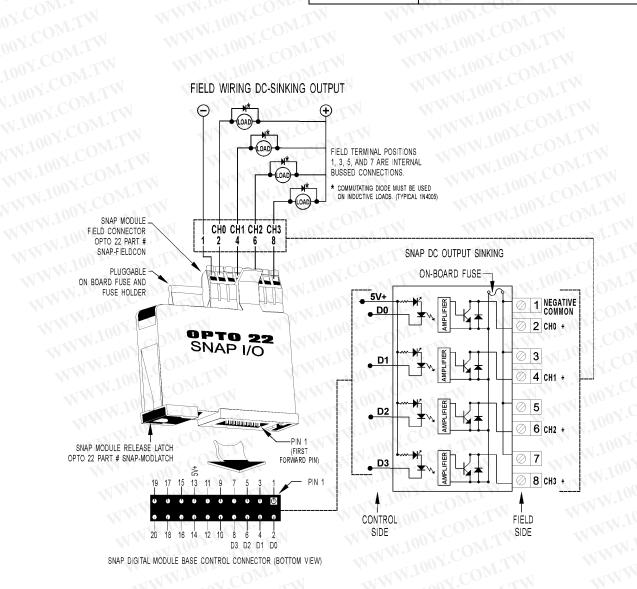
SNAP Digital Output Modules

4-channel DC output 5-60 VDC logic source,

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	





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Digital Output Module

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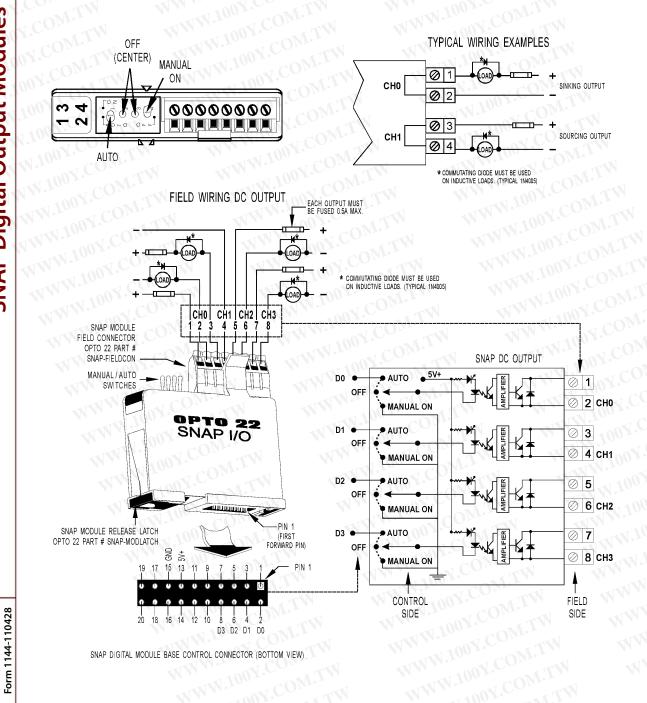
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Schematics

SNAP-ODC5MA Output Module with Manual/Auto Switches

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

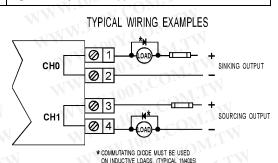
SNAP Digital Output Modules

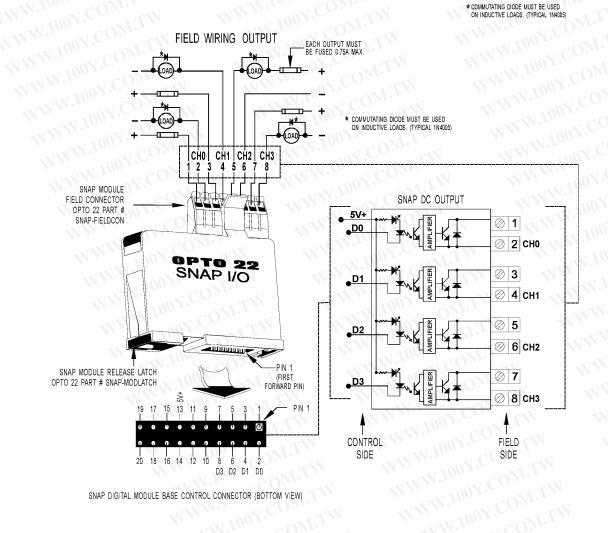


Schematics

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

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Part Number	Description	
SNAP-ODC5-i	4-channel isolated DC output 5-60 VDC, 5 VDC logic	
SNAP-ODC5A-i	4-channel isolated DC output 5-200 VDC, 5 VDC logic	
SNAP-ODC5-iFM	4-channel isolated DC output 5–60 VDC, 5 VDC logic, Factory Mutual approved	
SNAP-ODC5A-iFM	4-channel isolated DC output 5–200 VDC, 5 VDC logic, Factory Mutual approved	





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Dimensional Drawing

All Models Except MA

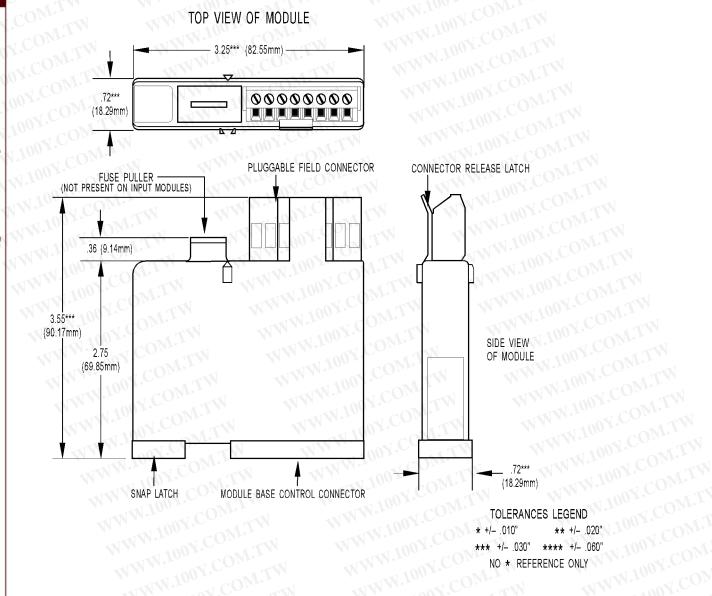
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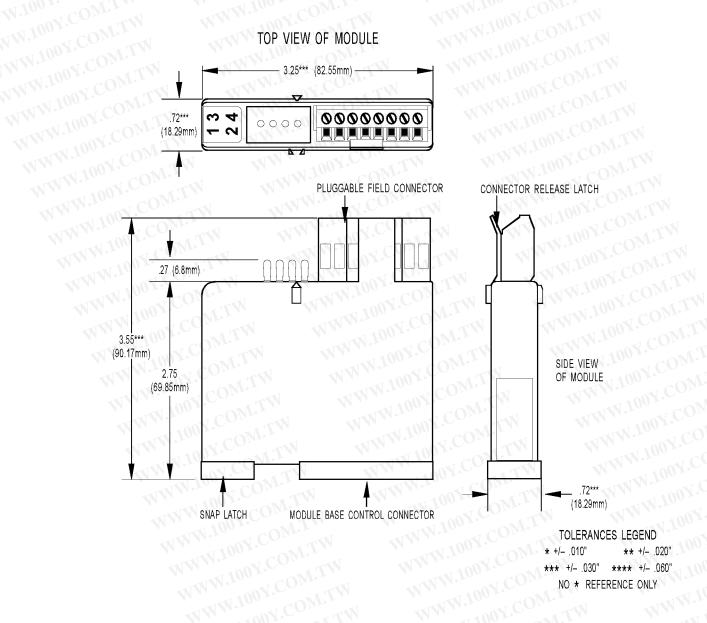


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All MA Models



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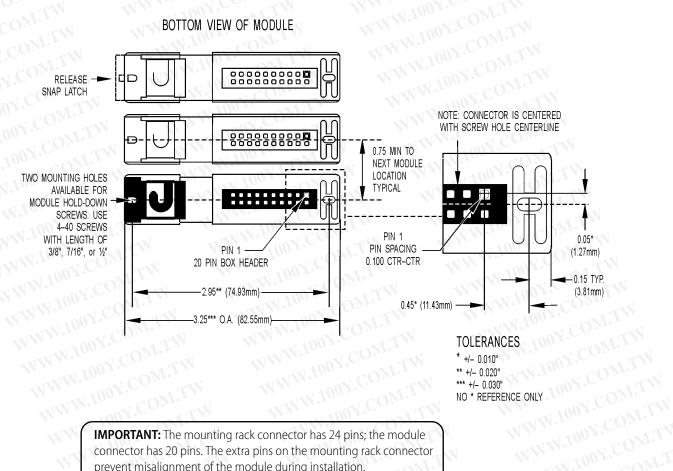
N N SNAP Digital Output Modules

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All Models



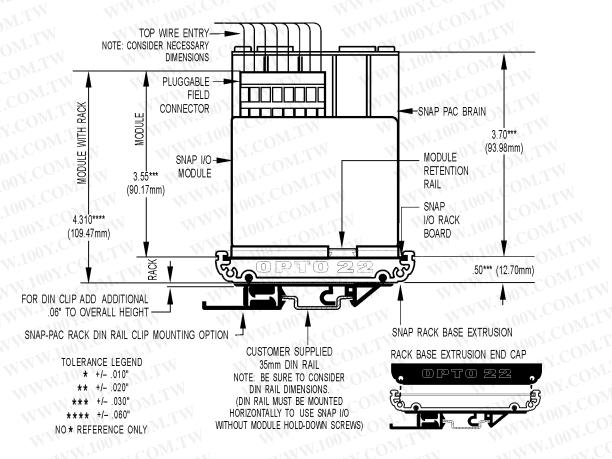
prevent misalignment of the module during installation.

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Dimensional Drawing WWW.100Y.COM

All Models



SNAP Digital Module Mounted on SNAP Rack

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More About Opto 22

Products

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

SNAP PAC System

Designed to simplify the typically complex process of understanding, selecting, buying, 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/O[™]

SNAP PAC Controllers

Programmable automation controllers (PACs) are multifunctional, multidomain, modular controllers based on open standards and providing an integrated development environment.

Opto 22 has been manufacturing PACs for many years. The latest models include the standalone SNAP PAC S-series and the rack-mounted SNAP PAC R-series. Both handle a wide range of digital, analog, and serial functions and are equally suited to 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 without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

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

These fully integrated software applications share a single tagname database, so the data points you configure in PAC Control[™] are immediately available for use in PAC Display[™], OptoOPCServer[™], and OptoDataLink[™]. 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 OptoOPCServer, OptoDataLink, options for Ethernet link 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, serial, and special-purpose 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 and with over 85 million devices sold, 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 do no statistical testing and each part is tested twice before leaving our factory, we can guarantee most solidstate relays and optically isolated I/O modules for life.

Free Product Support

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

Free Customer Training

Hands-on training classes for the SNAP PAC System are offered at our headquarters in Temecula, California. Each student has his or her own learning station; classes are limited to nine students. Registration for the free training class is on a firstcome, first-served basis. See our website, www.opto22.com, for more information or email training@opto22.com.

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.

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