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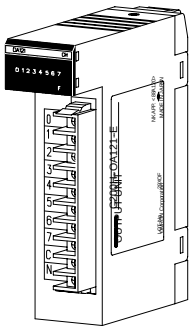
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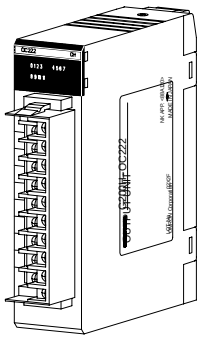
Find the *OMRON C200H-ID212* at our website: *Click HERE*

DISCRETE I/O MODULES

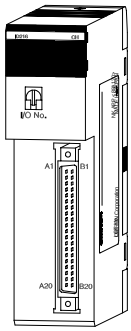
OVERVIEW



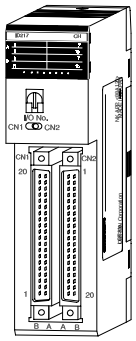
Connector
Style A



Connector
Style B



Connector
Style C



Connector
Style D



Connector
Style E

Discrete I/O Modules – Varying Connector Types

Discrete I/O modules are available in a number of voltages, densities, terminal block, and connector types. Connector-style high-density I/O modules with 32 or 64 discrete I/O points per module have solder connectors included with the module. Optional wiring methods are available using Omron's I/O blocks, screw terminal, crimp and ribbon connectors, and pre-terminated cables. These versatile high-density configuration options minimize rack space and wiring time. The Omron I/O Blocks provide single-point isolation and up to 5 A current capacity per point. Replaceable relays and solid-state plug-in modules allow easy maintenance. There are five styles of discrete I/O modules in the C200H family. The profiles of each are shown here. Each module in the following pages is cross-referenced to the module style. Modules include the appropriate connectors.

Features

- Versatile high-density configuration options minimize rack space and wiring time
- Replaceable relays and solid-state plug-in modules mean easy maintenance

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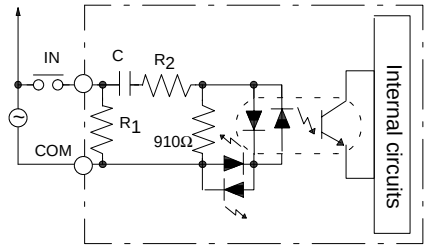
Input Module Specifications

TYPE	NO. OF INPUTS	INPUTS PER COMMON	INPUT VOLTAGE	INPUT CURRENT	OPERATING VOLTAGE		INPUT RESPONSE TIME		MODULE-STYLE	PART NUMBER
					ON	OFF	ON	OFF		
AC Input	8 pts	8 pts.	100 to 120 VAC +10%/–15%	10 mA, 100 VAC	60 VAC min.	20 VAC max.	35 ms max.	55 ms max.	A	C200H-IA121
	16 pts.	16 pts.							B	C200H-IA122
	8 pts.	8 pts.	200 to 240 VAC +10%/–15%	10 mA, 200 VAC	120 VAC min.	40 VAC max.			A	C200H-IA221
	16 pts.	16 pts.							B	C200H-IA222
DC Input	8 pts.	8 pts.	12 to 24 VDC +10%/–15%	10 mA, 24 VDC	10.2 VDC min.	3.0 VDC max.	1.5 ms max.	1.5 ms max.	A	C200H-ID211
	16 pts.	16 pts.	24 VDC +10%/–15%	7 mA, 24 VDC	14.4 VDC min.	5.0 VDC max.			B	C200H-ID212
AC/DC Input	8 pts.	8 pts.	12 to 24 VAC/DC +10%/–15%	10 mA, 24 VDC	10.2 VDC min.	3.0 VDC max.	15 ms max.	15 ms max.	A	C200H-IM211
	16 pts.	16 pts.	24 VAC/DC +10%/–15%	7 mA, 24 VAC/ DC	14.4 VDC min.	5.0 VDC max.			B	C200H-IM212

Note: 1. All models feature photocoupler isolation and LED indicator.
2. Each Discrete I/O Module has a removable terminal block. See the above *STYLE* column for a reference to the module style/connector type and refer to the accompanying drawing and chart for specific connector details.

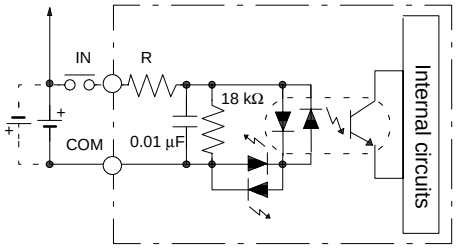
Input Module Circuit Configuration

AC Input: IA121, IA122, IA221, IA222



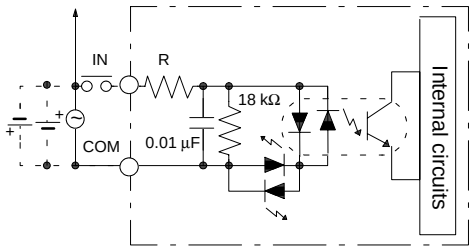
	R_1	C	R_2	V (AC)
IA121, IA122:	330 kΩ	0.33 µF	470 Ω	100 to 120
IA221:	680 kΩ	0.15 µF	820 Ω	200 to 240
IA222:	680 kΩ	0.15 µF	680 Ω	200 to 240

DC Input: ID211, ID212



	R	V (DC)
ID211:	2 kΩ	12 to 24
ID212:	3 kΩ	24

AC/DC Input: IM211, IM212



	R	V
IM211:	2 kΩ	12 to 24 VAC/DC
IM212:	3 kΩ	24 VAC/DC

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DISCRETE I/O MODULES

OUTPUT MODULE SPECIFICATIONS

Output Module Specifications

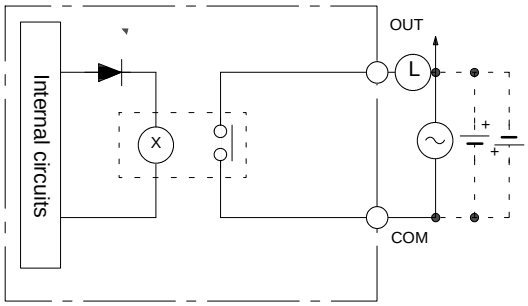
No. of outputs	Rated load voltage	Max. load current	Min. switching capacity	Output response times		Leakage current	Outputs/ per common	Fuse	External power supply	Internal power consumption (VDC)	Part number
				ON	OFF						
Relay Output											Relay Output
8 pts.	250 VAC (cos ϕ = 1)/ 250 VAC (cos ϕ = 0.4)/ 24 VDC max.	2 A/pt. 8 A/8 pts.	10 mA, 5 VDC	10 ms max.	10 ms max.	---	8 pts.	---	---	10 mA max.	C200H-OC221
12 pts.		2 A/pt. 8 A/ 12 pts.					12 pts.				C200H-OC222 (see note)
16 pts.		2 A/pt. 8 A/ 16 pts.					16 pts.			50 mA max.	C200H-OC225 (see note)
5 pts.		2 A/pt. 10 A/5 pts.					1 pt.			10 mA max.	C200H-OC223
8 pts.		2 A pts. 16 A/8 pts.									C200H-OC224
Triac Output											Triac Output
8 pts.	120 VAC	1 A/pt. 4 A/8 pts.	Resistive load: 10 mA; inductive load: 40 mA (10 VAC)	1 ms max.	1/2 of load frequency max.	3 mA max., 100 VAC; 6 mA max., 200 VAC	8 pts.	5 A		140 mA max.	C200H-OA121-E
12 pts.	250 VAC, 50/60 Hz	0.3 A/pt. 2 A/12 pts.		1/2 of load frequency max.			12 pts.	3 A		200 mA max.	C200H-OA222V
8 pts.		1.2 A/pt. 4 A/8 pts.	Resistive load: 100 mA; inductive load: 50 mA (10 VAC)	1 ms max.			8 pts.	5 A		180 mA max.	C200H-OA223
12 pts.		0.5 A/pt. 2 A/12 pts.	100 mA, 10 VAC; 50 mA, 24 VAC; 100 mA, 100 VAC		1/2 + 1 ms of load frequency max.	1.5 mA max., 120 VAC; 3 mA max., 240 VAC	12 pts.	3.15 A		270 mA max.	C200H-OA224
Transistor Output											Transistor Output
8 pts.	12 to 48 VDC +10%/–15%	1 A/pt. 3 A/8 pts.	Residual voltage: 1.4 V max.	0.2 ms max.	0.3 ms max.	0.1 mA max.	8 pts.	5 A	30 mA, 12 to 48 VDC min.	140 mA max.	C200H-OD411
	24 VDC +10%/–15%	2.1 A/pt. 5.2 A/8 pts.						8 A	30 mA, 24 VDC min.		C200H-OD213
		0.8 A/pt. 2.4 A/8 pts.	Residual voltage: 1.5 V max.	1 ms max.	1 ms max.	1 mA max.		None	150 mA, 24 VDC min.		C200H-OD214
	5 to 24 VDC	0.3 A/pt.	10 mA, 5 VDC	1.5 ms max.	2 ms max.	0.1 mA max.			5 to 24 VDC	10 mA max.	C200H-OD216
12 pts.	24 VDC +10%/–15%	0.3 A/pt. 2A/12 pts.	Residual voltage: 1.4 V max.	0.2 ms max.	0.3 ms max.		12 pts.	5 A	25 mA, 24 VDC min.	160 mA max.	C200H-OD211
16 pts.		0.3 A/pt. 4.8 A/12 pts					16 pts.	8 A	35 mA, 24 VDC min.	180 mA max.	C200H-OD212
12 pts.	5 to 24 VDC	0.3 A/pt.	10 mA, 5 VDC	1.5 ms max.	2 ms max.		12 pts.	None	5 to 24 VDC	10 mA max.	C200H-OD217
16 pts.	24 VDC +10%/–15%	1 A/pt. 4 A/16 pts.	Residual voltage: 0.8 V max.	0.1 ms max.	0.3 ms max.		16 pts.		35 mA, 24 VDC min.	160 mA max.	C200H-OD21A

Note: Do not exceed the load current of 8 A per common. No more than 8 outputs can be turned ON simultaneously.

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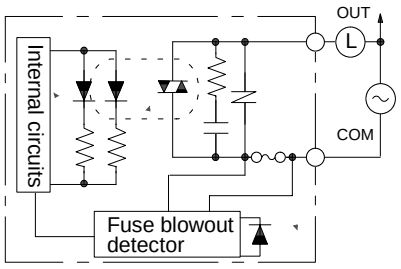
Output Module Circuit Configuration

Relay Output:
OC221, OC222, OC223, OC224, OC225



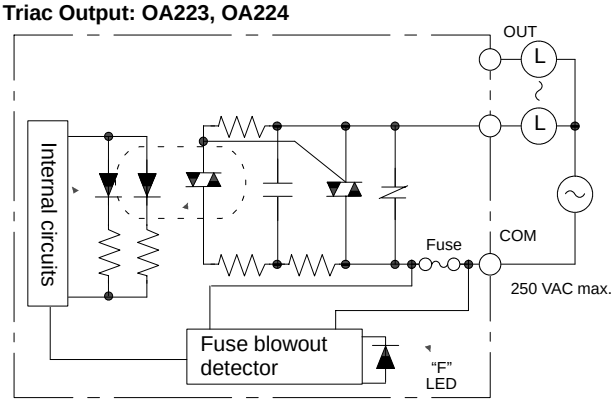
Use either + or – VDC

Triac Output: OA222V, OA121-E



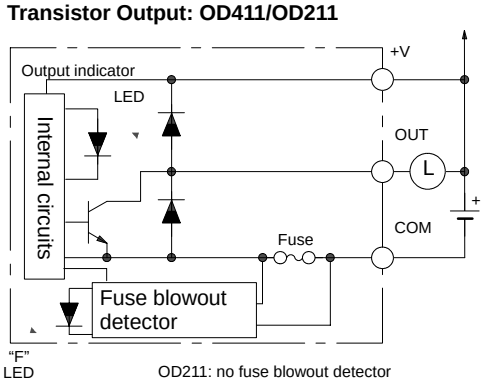
OA222V: no fuse blowout detector

Triac Output: OA223, OA224



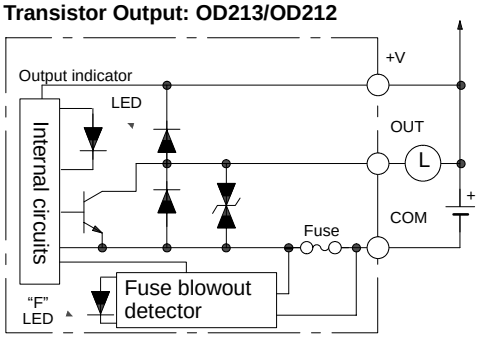
OA224: no fuse blowout detector

Transistor Output: OD411/OD211



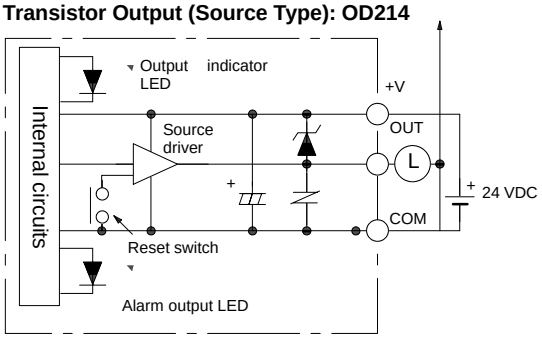
OD211: no fuse blowout detector

Transistor Output: OD213/OD212

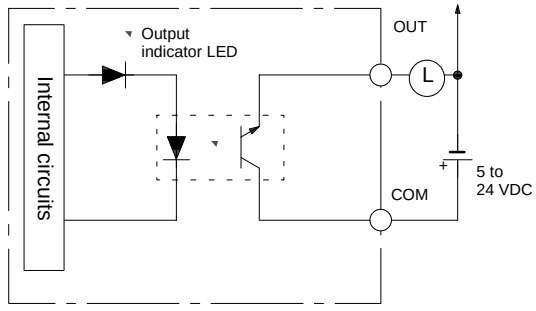


OD212: No fuse blowout detector

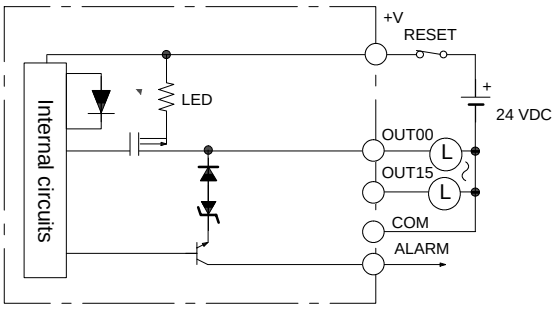
Transistor Output (Source Type): OD214



Transistor Output (Protective Circuit for Load Short-circuit): OD216/OD217



Transistor Output (Source Type with Protective Circuit for Load Short-circuit): OD21A



Note: Fuse blowout detection circuit: The F indicator is lit and the 08 bit turns ON. The 08 to 15 bits cannot be used as ordinary IR bits.

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