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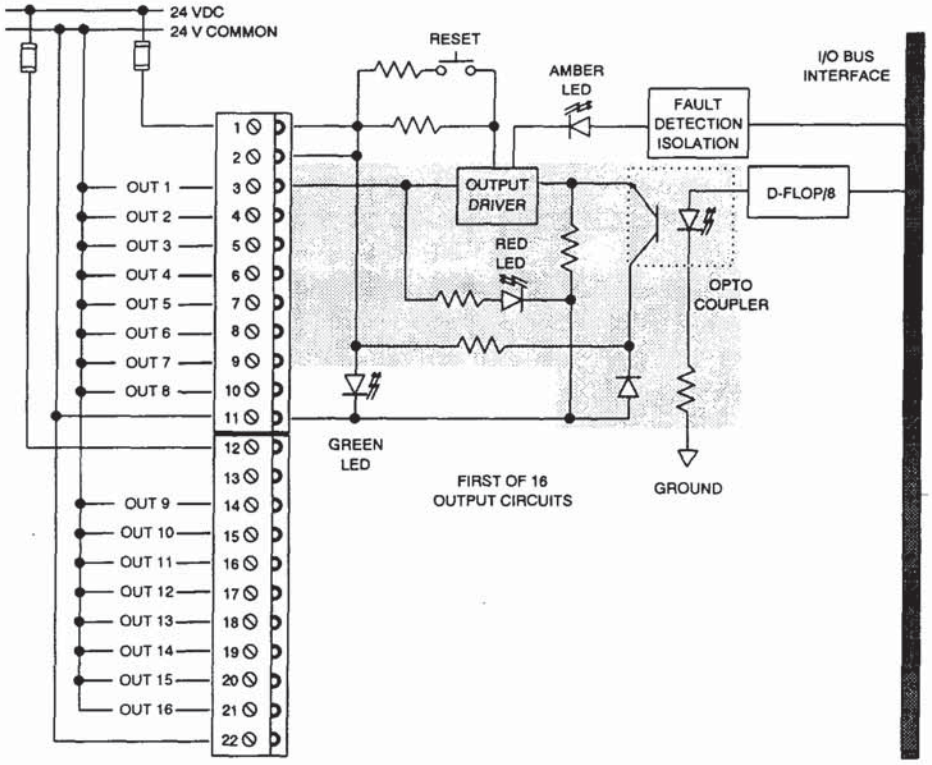
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Find the *Schneider Electric / Gould / AEG DAP 218* at our website: ***Click HERE***

DAP 216 Discrete Output Module

The DAP 216 is a discrete output module with 16 independent 24 VDC output circuits. It can drive relays, motor starters, pilot lamps, valves, solenoids and other similar loads. The module is structured in two groups of eight outputs, each output electrically opto-isolated from the I/O bus, and each group is protected against short circuit and overload.

Figure 5-35 Wiring Diagram and Simplified Schematic for the DAP 216 Output Module



LED's

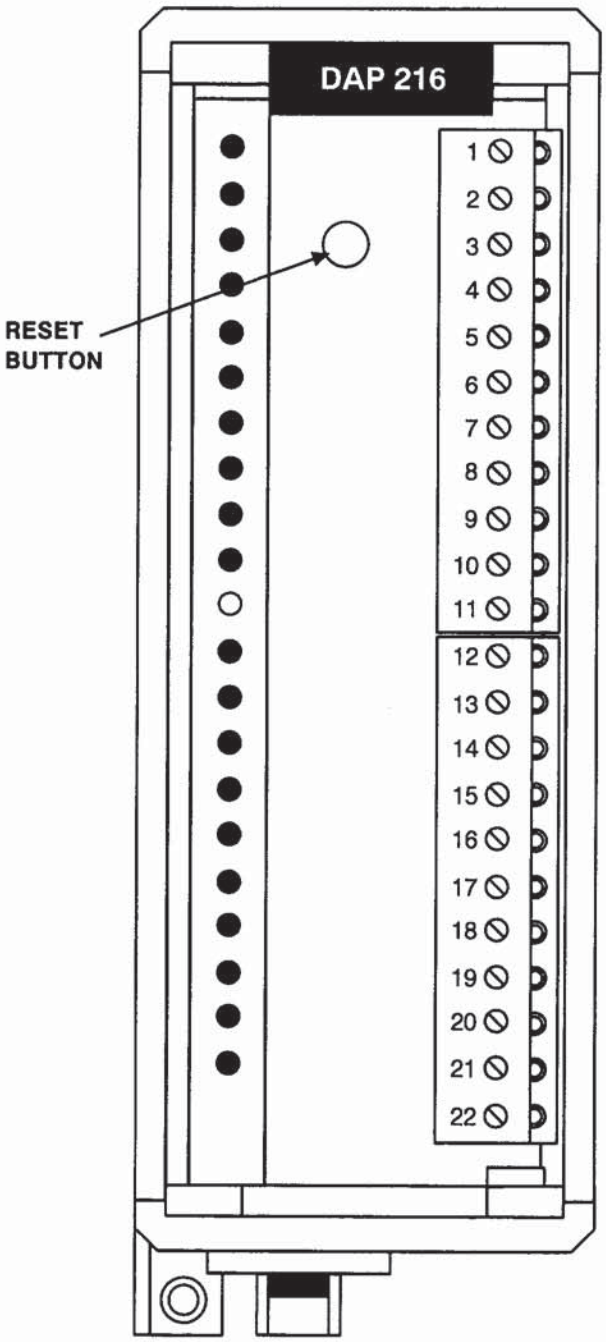
The DAP 216 has 20 LEDs. Two green LEDs opposite terminal screws 1 and 12 indicate when ON that working voltage is available to the two groups of eight discrete outputs. Two amber LEDs opposite terminal screws 2 and 13 are ON to indicate a short circuit or overload problem in each of the two output groups. There are 16 red LEDs opposite terminal screws 3 ... 10 and 14 ... 21, indicating when On that the adjacent discrete output is in an ON condition.

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Resetting the Module After an Overload or Short Circuit

The two amber LEDs display short circuit or overload conditions in the two discrete output groups. After taking corrective measures to remove the cause of the overload or short circuit, push the yellow reset button on the front of the module to reactivate it.

Figure 5-36 Front View of the DAP 216 Module with Reset Button Location



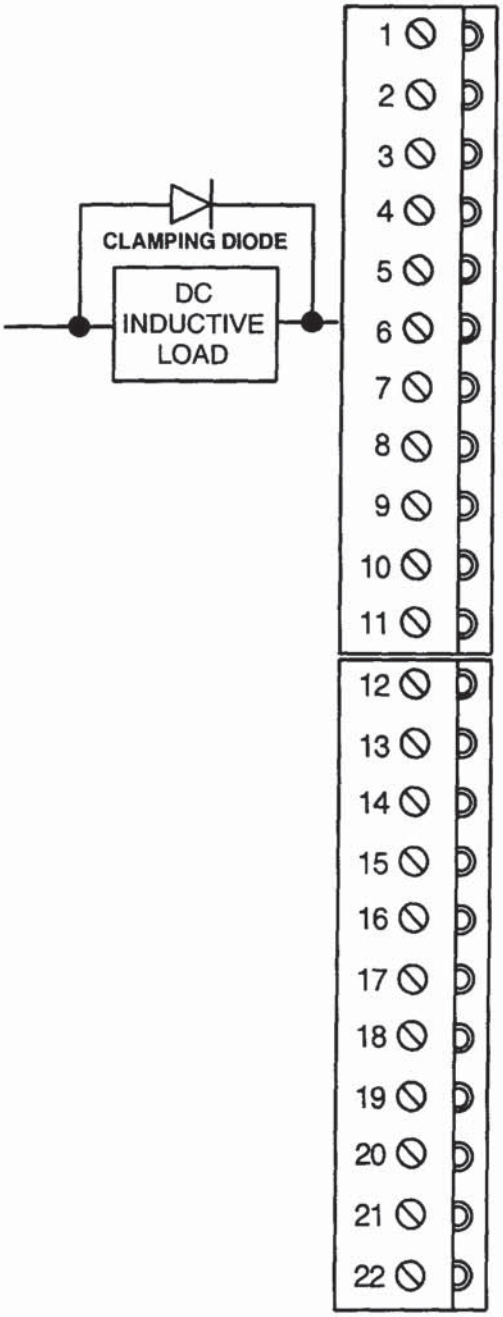
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Protecting the Module from Inductive Back EMF

If you have inductive loads on longer lines with logic elements located in the output loads, install an external clamping diode in parallel with the operating coil to protect the module from reverse EMF.

DAP 216 Characteristics

Figure 5-37 Clamping Diode on an Inductive Load



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Module Topology

Number of Outputs	16
Number of Groups	2
Points/Group	8
Isolation	Each point opto-isolated from the I/O bus Each output group isolated from the other

Power Supplies

External Source Requirement	24 VDC
Internally Provided Source	5V from I/O Bus
Internal Power Dissipation	1 Watts (Typical)

Electrical Characteristics

ON State Signal Level	21 ... 24 VDC
OFF State Signal Level	0 ... +2 V, < 1 mA
Load Current/Output	10 mA ... 0.5 A
Max Load Current/Group	2 A
Reverse-EMF Protection	Built-in circuitry limits inductive spikes to a max -15V
Switch Capacity for Bulbs	5 W (surge current = normal current x 10)
OFF-ON Operations	0.28/s (ind. load @ max load current) 100/s (resistive load) 8/s (max lamp load)
Wire Size/Terminal	One Wire: 14 AWG; Two Wires: 20 AWG

Addressing Characteristics

Discrete I/O Points (Bits)	0 in / 16 out
Register I/O (registers)	0 in / 1 out

Dimensions

W x H x D	40.3 x 145 x 117.5 mm (1.6 x 5.6 x 4.5 in.)
Weight	220 g (.5 lb.)

Agency Approvals

Designed to meet VDE 0160 and UL 508 Standards

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