8DO DIGITAL OUTPUT MODULE
FOR THE MOSCAD RTU

The 8 Digital Output module is an accessory to the MOSCAD RTU family that provides eight relay outputs that may be connected to, and used to control, on-site high-current electrical devices. Examples include lighting circuits, pumps, and motors.

FEATURES/BENEFITS

Data Output

Under the control of the defined Application Program, the CPU module will move the current status of the data variables in the CPU module that is associated with the relays to the 8DO module via the motherboard. The 8DO module then opens or closes the relays according to the status of this data.

▶ *The application in the CPU module, using data obtained throughout the system, determines the state of the ouput relays.*

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Electrically-Energized Relays

The 8DO module has eight high-current conventional relays. These relays each have a single coil. The relays remain closed for as long as their coils are energized.

▶ *This type of relay provides user control when it is mandatory that the relays open when power is lost or control otherwise disrupted.*

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Activation Feedback

The 8DO module has secondary contacts on the relays that provide positive feedback that the relay has closed.

▶ *This feedback may be treated as digital inputs and incorporated into the Application when required.*

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Packaging

The module is packaged in a plastic housing that plugs and locks into the motherboard. Wire connections (up to 14 ga. wire) are made to removable connectors on the face of the module. No jumpers, calibration pots, etc. are located on the module (any calibration is done electronically via software from the ToolBox program.)

▶ *Modularity allows the MOSCAD RTU to be easily expanded as system wants and needs change and makes field module replacement quick and easy.*
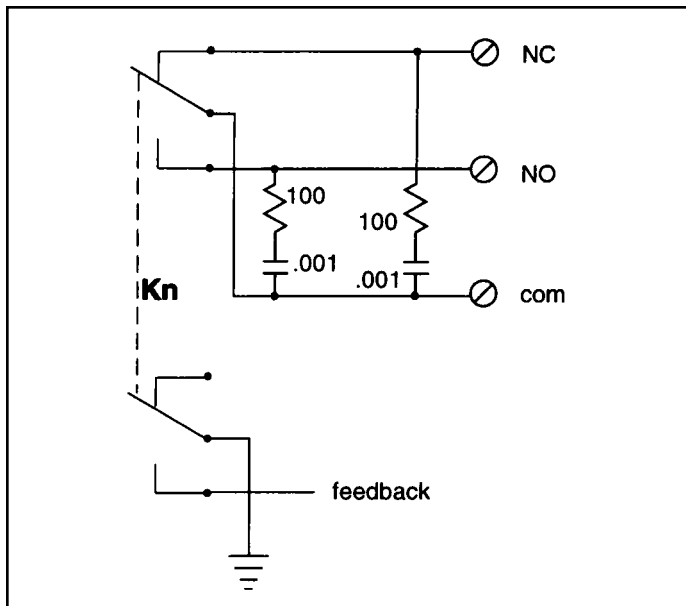
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8DO Digital Output Module

GENERAL SPECIFICATIONS

Order:	Plant Installed: Field Installed:	V508 FLN2295
Relays:	Number & Type: Contact Rating:	8, electrically energized 10 Amp @ 277 Vac; 10 Amp @ 30 Vdc
Output Protection:		Per ANSI/IEEE C37.90a-1989; High Frequency SWC=2.5 kV; Fast transient = 4 kV Per ANSI/IEEE C62.41: Class B2 = 4 kV/2 kA Per IEC 801-2, IEC 255-22: ESD Class 4 = 8/15 kV Per IEC 801-3, IEC 255-22-3: EMI Class 3 = 10 V/m Per IEC 801-4: Fast transient Level 4 = 2 kV Per IEC 255-4: High Frequency Class 3 = 2.5/1 kV; Impulse Class 3 = 5 kV
Diagnostic:	20 LEDS:	8 for Outputs, 1 each for Module Fial and No Clock, 10 spare
Power:	5 Vdc: 12 Vdc:	15 ma 5 ma (18 ma with LEDs on) plus 65 ma (max.; 44 ma typical) per energized relay
Environment	Humidity: Temperature:	0-90% @ +50ºC -30 to +60ºC

Specifications subject to change without notice.

Typical Output Circuit

Connections Chart

Term	Function		Term	Function
1	K1 NO		13	K5 NO
2	K1 com		14	K5 com
3	K1 NC		15	K5 NC
4	K2 NO		16	K6 NO
5	K2 com		17	K6 com
6	K2 NC		18	K6 NC
7	K3 NO		19	K7 NO
8	K3 com		20	K7 com
9	K3 NC		21	K7 NC
10	K4 NO		22	K8 NO
11	K4 com		23	K8 com
12	K4 NC		24	K8 NC

Support Services
Wherever Motorola sells, our product is backed by service. Our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.

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