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MATRIX SYSTEMS
Calabasas California USA

1600 Series
Relay Control Module

Features:
- Controls Matrix coaxial, audio and solid state relays
- Visual status LED indicators
- Logical status feedback
- Control up to 24 switchpoints
- Interfaces with Matrix model 6310B decoding module
- Random X-Y switchpoint selection and latching
- Self-contained open collector relay drivers
- TTL, Bi MOS compatible
- SET, RESET, MASTER CLEAR and STATUS inputs



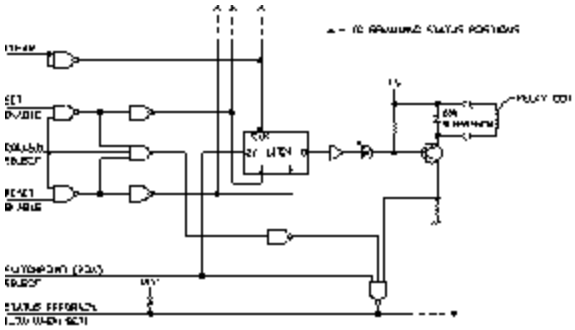
Relay Control Module

The 1600 series logic module provides latching and coil drive to Matrix 7000 series coaxial relays, modules 6190A and 6191A video matrices, module 6157A audio relay, and model 6153A coaxial attenuator. Any other device which is within the output drive rating can also be controlled.

Module 1600 series provides status feedback and is typically used as the interface between the Matrix model 6310B decoding module and Matrix 7000 series relays.The module utilizes LED indicators to allow visual confirmation of the switchpoints current status. The LED's are continuously visible through a slot in the units top and are a valuable aid in troubleshooting and programming verification. Logical status feedback to the system's controller is also provided. To verify the status of a switchpoint, the status mode is selected by putting a “Low” on the set-reset lines in accordance with the control format shown in the specifications. The unit is then addressed through the Row and Column select lines either directly or through the decoding module. If the addressed point is set, the status output will go “Low”. The status of the switchpoints will not be changed when in the status mode.

Status is determined by verifying the relays' actual control coil current, instead of the control logic level, providing a fail-safe indication. This is a valuable feature which can alert the system to failures such as damaged control cable or an unplugged relay module.

Specifications:
- Pulse width (10 microsecond min.)
- Status output Logical TTL“0" indicates addressed switchpoint is ”SET". LED's indicate visually that switchpoint is “SET”.
- Relay control output Open collectors sink 40mA @ 30VDC max. Coil suppression diodes are built-in.
- Supply voltage +4.75VDC to +5.25VDC
- Supply current 200mA max. @ 5VDC
- Connectors D type sub-miniature
- Operating temp 0°C to 70°C
- Size 4.90"H x .625"W x 7.63"L
- Mounting Two tapped 6-32 holes in base



LINK TO: MODEL NUMBER ASSIGNEMENT

Control format

Mode	SET Enable	Reset Enable	Colomn Select	Row Select	Clear
Set	1	0	1	1	0
Reset	0	1	1	1	0
Status	0	0	1	1	0
Clear	0	0	1	1	0

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