

## FEATURES & CAPABILITIES

The Malfunction Management Unit (MMU) 516 monitors up to 16 traffic signal channels for conflict, improper sequencing, incorrect timing, and improper signal voltage levels. The MMU 516 is fully compliant with NEMA Standard TS2-2003. The MMU 516 is also capable of operating in older TS1 type cabinets, and is compatible with 12-channel Conflict Monitor Units conforming to the NEMA Standard TS1-1989.

- High speed internal data transfer and communications via an SDLC port
- High speed external data transfer via an optional RS-232 port
- Programmable field parameters with two position pencil switches
- LED indicator lamps for operation analysis
- Removable program card
- Meets & exceeds NEMA TS2 specifications

## SPECIFICATIONS

### PROGRAMMING

Minimum flash; 0-12 seconds  
Short yellow per channel  
Programmable sequence monitor  
Latch selectable options

### INDICATION

Conflict LED  
Red Fail LED  
24 V-1  
24 V-2  
Controller Voltage Monitor  
Red+Yel Clearance  
Clearance  
Diagnostics  
Port 1 Fault, Tx, Rx  
Program Card Ajar  
Indication Fail LED  
Field Check  
Power LED  
Type 12 Mode

### ENVIRONMENTAL

Temperature: -30° F to 74° C  
Humidity: <95% non-condensing to +43° C

### DIMENSIONS

10.5" X 4.5" X 10.9"

### POWER

Line Voltage: 75 to 140 VAC, RMS  
Line Frequency: 57 to 63 Hz, 60Hz nominal  
Power Consumption: 10 watts, typical  
Fuse, Front Panel: 0.5A

### MONITORING VOLTAGE

Pickup: 96 +/- 2.5 Volts AC, RMS  
Dropout: 91 +/- 2.5 Volts AC, RMS  
Hysteresis: 4 +/- 1.0 Volts AC, RMS

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