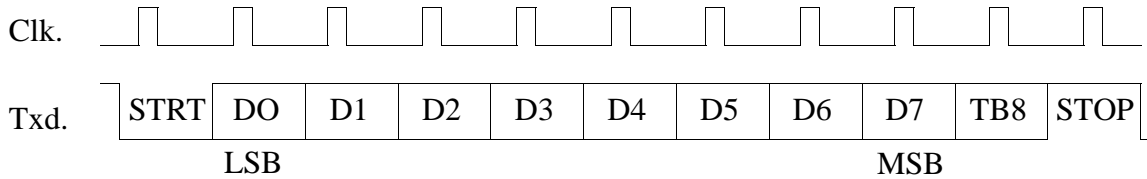


Protocol:**Martin MAC 300 ver. 1****1 feb 1999**

Hardware: SN75176 Transceiver (Texas), RS-485 Balanced

Baud rate:187.5 Khz.,11 bit frame UART



TB8: True = Address, False = Data

Address = 8 * (Unit DIP-switch address number - 1) + OFF

MSB refers to Most Significant Byte. LSB refers to Least Significant Byte

| Effect | OFF | Legal Data |
|--|-----|---|
| MSB: CYAN LSB: TIME | 0 | 0..255, 0 = open 0..255, 0..25.5 sec |
| MSB: MAGENTA LSB: TIME | 1 | 0..255, 0 = open 0..255, 0..25.5 sec |
| MSB: YELLOW LSB: TIME | 2 | 0..255, 0 = open 0..255, 0..25.5 sec |
| MSB: Random Strobe LSB: Random CMY | 3 | 0 = Random strobe off 1 = Random strobe slow 2 = Random strobe medium 3 = Random strobe fast 0 = Random CMY off 1 = Random CMY slow 2 = Random CMY medium 3 = Random CMY fast |
| MSB: Pan MSB LSB: Pan LSB | 4 | 0..255 128 = Neutral 0..127 15 bit, 540 deg. |
| MSB: Tilt MSB LSB: Tilt LSB | 5 | 0..255 128 = Neutral 0..88 15 bit, 265 deg. |
| MSB: Pan Time LSB: not used | 6 | 0..255, 0..25.5 Sec, 0 = BO while moving |
| MSB: Tilt Time LSB: not used | 7 | 0..255, 0..25.5 Sec, 0 = BO while moving |
| MSB: COLOR LSB: TIME | 8 | 0..181, 0 = open 26 = color 1 52 = color 2 78 = color 3 104 = color 4 130 = color 5 156 = color 6 0..255, 0..25.5 Sec, 0 = BO while moving |
| MSB: not used LSB: Boot Request Sequence Autodetect Enable | 9 | Request string: "MA300",0,0,0,0 Decimal values: 77,65,51,48,48,0,0,0,0 This channel is only used when uploading new software to the fixture. For normal operation the value for this channel should be 0. Request string: "MA300",0,0,0,"A" Decimal values: 77,65,51,48,48,0,0,0,65 |

| | | |
|---|----|---|
| MSB: Color wheel speed LSB: Color wheel rotation | 10 | 0..127 Fast --> Slow 0 = no rotation bit 0 (1) = continuous CW rotation bit 1 (2) = continuous CCW rotation |
| MSB: Frost LSB: Time | 11 | 0..255 = Open --> full frosted 0..255, 0..25.5 Sec |
| MSB: Dimmer LSB: Dimmer pulse | 12 | 0..255, 0..100%, 0 = Default (Light Off) bit 5-6: 0 = Disable 32 = Opening 64 = Closing bit 0-4: 0-31 = speed fast --> slow |
| MSB: Dimmer time LSB: | 13 | 0..255, 0..25.5 Sec |
| MSB: Offset value LSB: Offset, select effect | 14 | 1..255, 128 = Default (no offset) 10 = Dimmer Offset 11 = Cyan Offset 12 = Magenta Offset 13 = Yellow Offset 14 = Pan Offset 15 = Tilt Offset Cancel (confirm) for individual offsets: 60 = Cancel Dimmer Offset 61 = Cancel Cyan Offset 62 = Cancel Magenta Offset 63 = Cancel Yellow Offset 64 = Cancel Pan Offset 65 = Cancel Tilt Offset 125 = Cancel all offsets (confirm) 126 = Confirm 127 = Store (In non-volatile fixture memory). A cancel, confirm or store command will only take place with MSB set to 0. For normal operation the value for these channels should be 0. |
| MSB: Special Commands LSB: Strobe | 15 | bit 0 (1) = Free bit 1 (2) = Free bit 2 (4) = Free bit 3 (8) = Free bit 4 (16) = Lamp Power OFF bit 5 (32) = Lamp Power ON bit 6 (64) = Reset Fixture bit 7 (128) = Free 0..63 Fast --> Slow 0 = Disable |