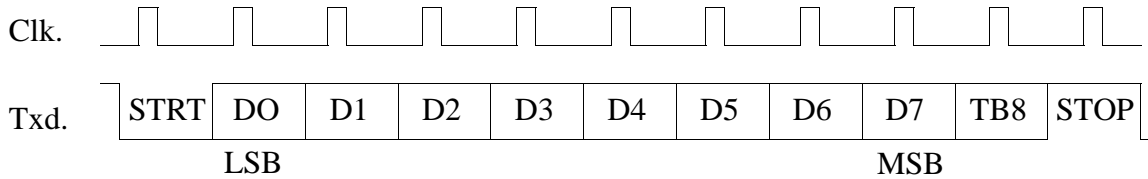


Protocol:**Martin MAC 250 ver. 1****18 dec. 1998**

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

Baud rate: 187.5 Khz., 11 bit frame UART



TB8: True = Address, False = Data

not used

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

Effect	OFF	Legal Data
MSB: Color time LSB: Color wheel position	0	0..255 = 0..25.5 sec, 0 = BO while moving 0..77 0 = open 6 = color1 12 = color2 18 = color3 24 = color4 30 = color5 36 = color6 42 = color7 48 = color8 54 = color9 60 = color10 66 = color11 72 = color12
MSB: Gobo wheel rotation LSB: Gobo wheel rotation speed	1	0 = no rotation 1 = continuous CW rotation 2 = continuous CCW rotation 0..127 = slow --> fast
MSB: Gobo shake speed LSB: not used	2	0..15 = fast --> slow, 0 = disable
MSB: not used LSB: Dimmer pulse	3	bit 5-6 0 : Off 32 : Opening pulse 64 : Closing pulse bit 0-4 0-31 : speed fast --> slow
MSB: Pan MSB LSB: Pan LSB	4	0..255 = left --> right, 128 = neutral 0..127 = left --> right, 15 bit resolution, 540°
MSB: Tilt MSB LSB: Tilt LSB	5	0..255 = up --> down, 128 = neutral 0..88 = up --> down, 15 bit resolution, 289°
MSB: Pan Time LSB: not used	6	0..255, 0..25.5 Sec, 0 = BO while moving
MSB: Tilt time LSB: Gobo selection	7	0 = Open 1 = Gobo1 2 = Gobo2 3 = Gobo3 4 = Gobo4 5 = Gobo5 6 = Gobo6 7 = Gobo7 8 = Gobo8

MSB: Focus LSB: Random strobe and color	8	0..255 near --> far 127 = default 0 = Random strobe and random color off bit 0-2: 1 = Random strobe slow 2 = Random strobe medium 3 = Random strobe fast bit 3-5: 8 = Random color slow 16 = Random color medium 24 = Random color fast
MSB: Gobo rotation speed LSB: Boot Request Sequence Autodetect enable	9	0..127, 0 = BO while changing gobo and indexing Request string: "MA250",0,0,0,0,0 Decimal values: 77,65,50,53,48,0,0,0,0,0 This channel is only used for special functions. For normal operation the value for this channel should be 0. Request string: "MA250",0,0,0,0,"A" Decimal values: 77,65,50,53,48,0,0,0,0,65
MSB: Focus time LSB: Color wheel rotation	10	0..255, 0..25.5 sec. 0 = No rotation bit 0 (1) = continuous CW rotation bit 1 (2) = continuous CCW rotation
MSB: Color wheel speed LSB: not used	11	0..127 Fast --> Slow
MSB: Dimmer LSB: Prism	12	0..255, 0..100%, 0 = Default (Light Off) 0 = Disable bit 0 (1) = CW bit 1 (2) = CCW
MSB: Dimmer time LSB: Prism speed	13	0..255, 0..25.5 Sec 0..127 Fast --> Slow, 0 = No rotation
MSB: Gobo Rotation LSB: not used	14	253 = Stop 254 = Continuous CW rotation 255 = Continuous CCW rotation
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 0..63 Fast --> Slow, 0 = Disable