

Wiring diagram M-TUBE Standard

M-TUBE 1320.xxxx Standard, monochrome:

Voltage DC: + (anode) to red and – (cathode) to black

Forward Voltage of the LEDs is specified in the LV catalog.

With the coupler and corner casings there are 2 LEDs connected in series → Voltage of the respective colour needs to be multiplied by 2.

The maximum current per LED amounts 100mA and **needs to be limited** via constant current source.
 At ambient air temperature up to 30°C the maximum current per LED amounts 220mA.

series resistance(100mA)		at 5V	12V	24V
U _f - red:	2,1V	30 ohm/0,33W	100 ohm/1W	220 ohm/2,5W
U _f - green:	3,6V	15ohm/0,25W	85 ohm/1W	200 ohm/2W
U _f - blue:	3,6V	15ohm/0,25W	85 ohm/1W	200 ohm/2W
U _f - white:	3,6V (5.600K)	15ohm/0,25W	85 ohm/1W	200 ohm/2W
U _f - warmwhite:	3,6V (3.500K)	15ohm/0,25W	85 ohm/1W	200 ohm/2W

M-TUBE 1320.1900 RGB:

Wiring see diagram

maximum current per LED: 50 mA (one colour on)

total maximum current: 100 mA (all colours on)

series resistance (50mA)		at 5V	12V	24V
U _f - red:	2,1V (red wire)	60 ohm/0,125W	200 ohm/0,5W	430 ohm/1,5W
U _f - green:	3,2V (green wire)	36 ohm/0,125W	180 ohm/0,5W	430 ohm/1,5W
U _f - blue:	3,2V (blue wire)	36 ohm/0,125W	180 ohm/0,5W	430 ohm/1,5W

(at 50mA)

