# RGB-LED-connection

5V (e.g. from drive connector)
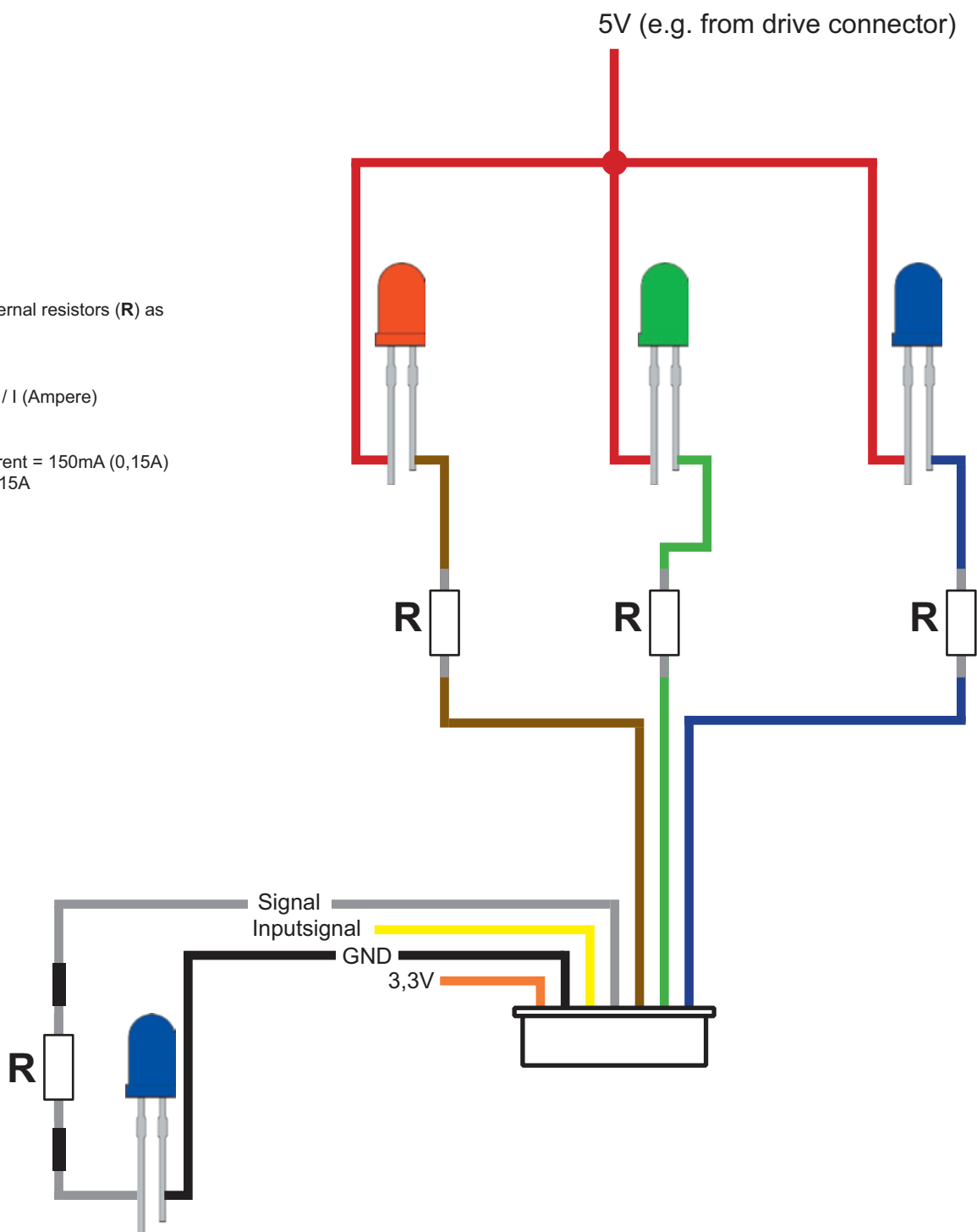
LEDs require a external resistors (**R**) as current limit.

Calculation is:
R (Ohm) = U (Volt) / I (Ampere)

Example:
voltage = 4.1V, current = 150mA (0,15A)
R = (5V - 4.1V) / 0.15A
R = 6 Ohm

**R**   **R**   **R**

Signal
Inputsignal
GND
3,3V

**R**

An additional extern status-LED, which shows the current state of the SmartXX, can be connected.