Arduino-Browserbased-Many-LED-Controller Circuit V1.0

Arduino
MKR 1010 WIFI

AREF	+5V
D15	VIN
D16	VCC
D17	GND
D18	RESET
D19	14 <- TX
D20	13 -> RX
D21	12 SCL
D0	11 SDA
D1	10
D2	9
D3	8
D4	7
D5	6

3.3V

! IMPORTANT NOTE !

If you use the
TXS0108E instead, keep
all lines as short as
possible. If the
circuit is not
working, check with
scope for ringing

SparkFun
Logic Level
Converter
bidirektional

HV4	LV4
HV3	LV3
GND	GND
HV	LV
HV2	LV2
HV1	LV1

AT24C256
EEPROM

| VCC |
| SCL |
| SDA |
| GND |

5V

| 5V |
| GND |

Up to 62 x
PCA9685

GND	GND	GND	GND
OE	OE	OE	OE
SCL	SCL	SCL	SCL
SDA	SDA	SDA	SDA
VCC	VCC	VCC	VCC
V+	V+	V+	V+

Address
Address
Address
Address
Address