


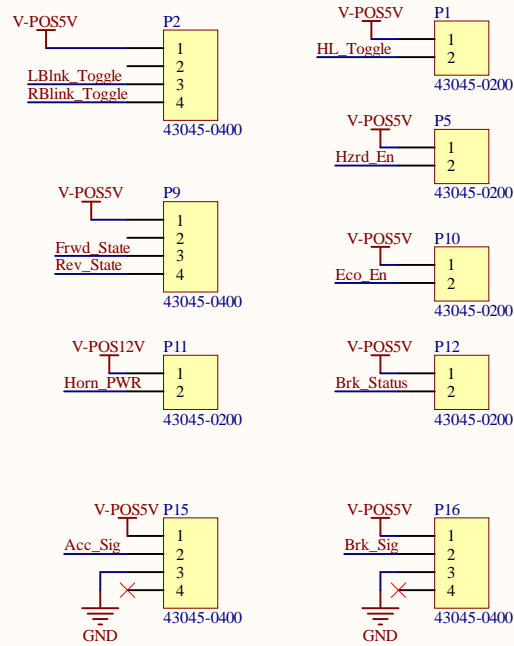
# DRIVER IO

## SOLAR CAR 1

### REV A

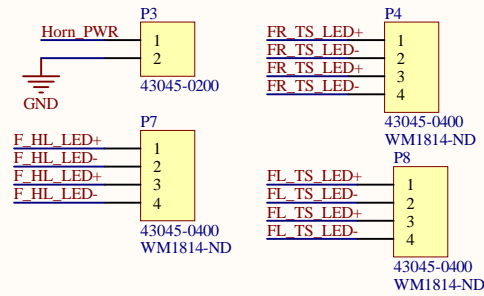
Title <i>Driver IO</i>			Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706  
Engineer:		Revision:	
Date: 4/3/2022	Time: 11:57:46 AM	Sheet 1 of 2	
File: driver_io.SchDoc			

## Driver Input Interface

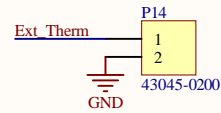


Revisit once specific switches are decided upon

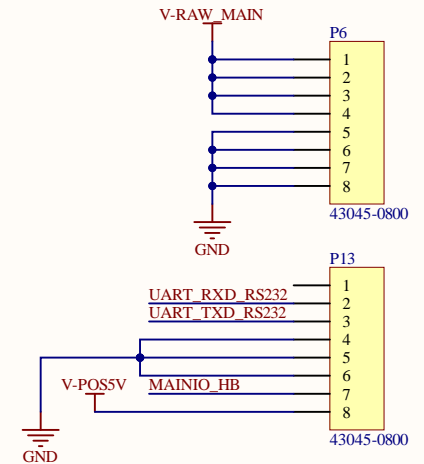
## Output Interface



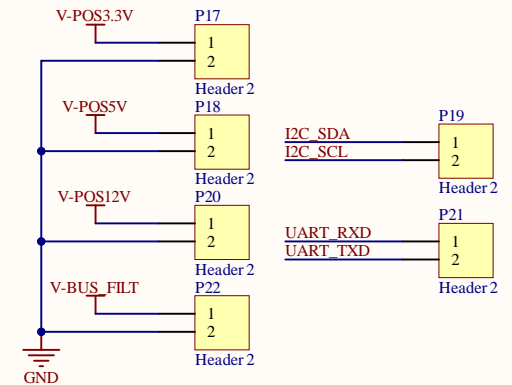
## External Thermistor




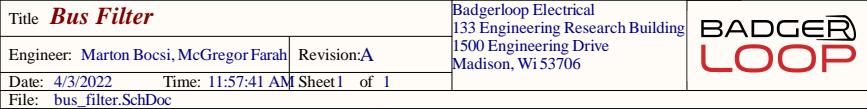
## Main IO Interface

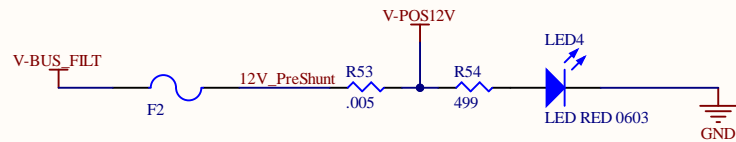


## Debug Headers




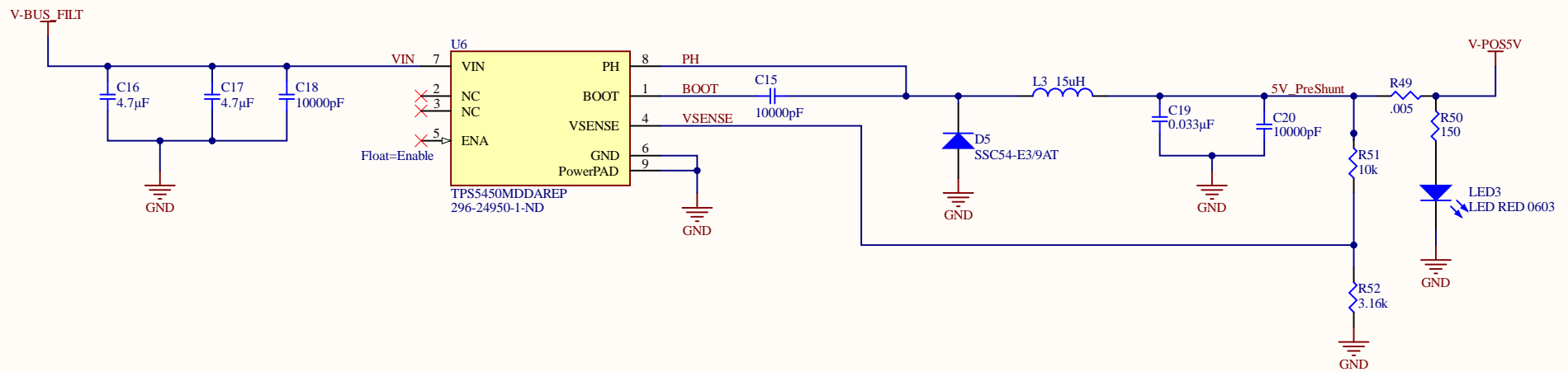
Title <b>Connectors</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: McGregor Farah, Olivia D'Souza	Revision: A		
Date: 4/3/2022	Time: 11:57:42 AM		
File: connectors.SchDoc		Sheet 1 of 1	



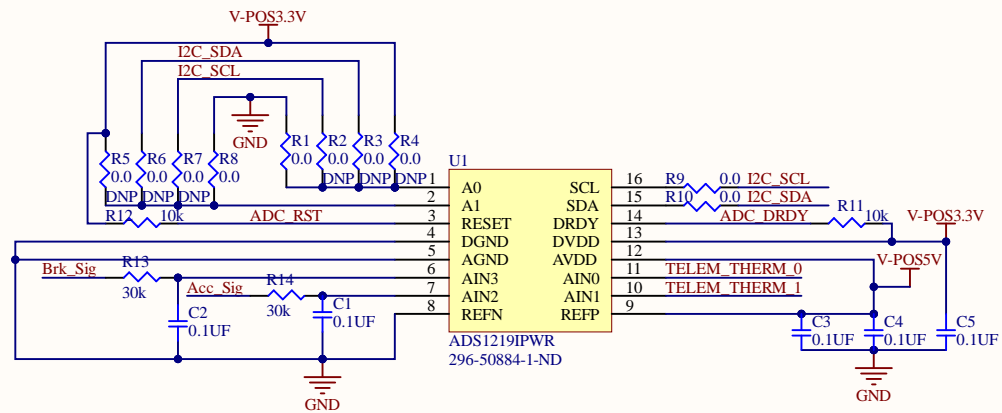



Placeholder until it is determined whether we need to regulate to 12V

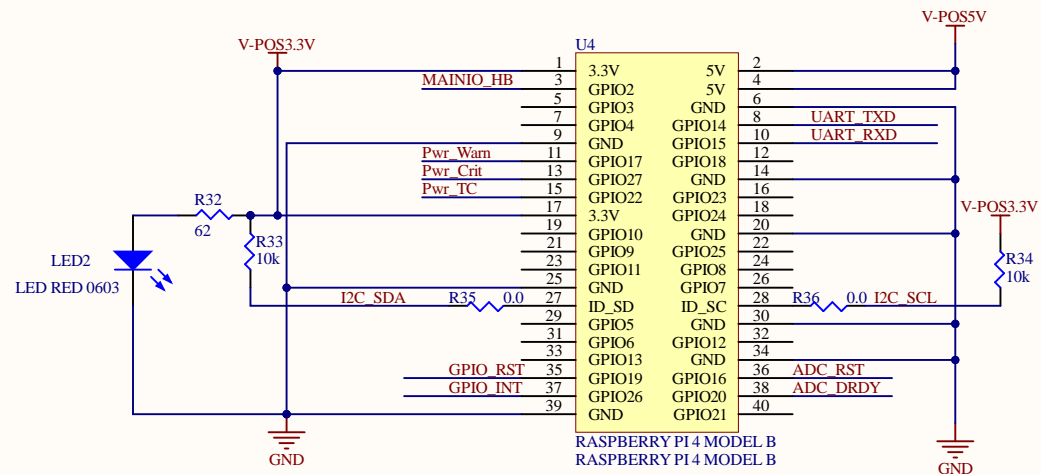
Title <b>12V Power</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, Wi 53706		
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>			
Date: <b>4/3/2022</b>	Time: <b>11:57:55 AM</b>	Sheet <b>1</b> of <b>1</b>		
File: <b>power_12v.SchDoc</b>				




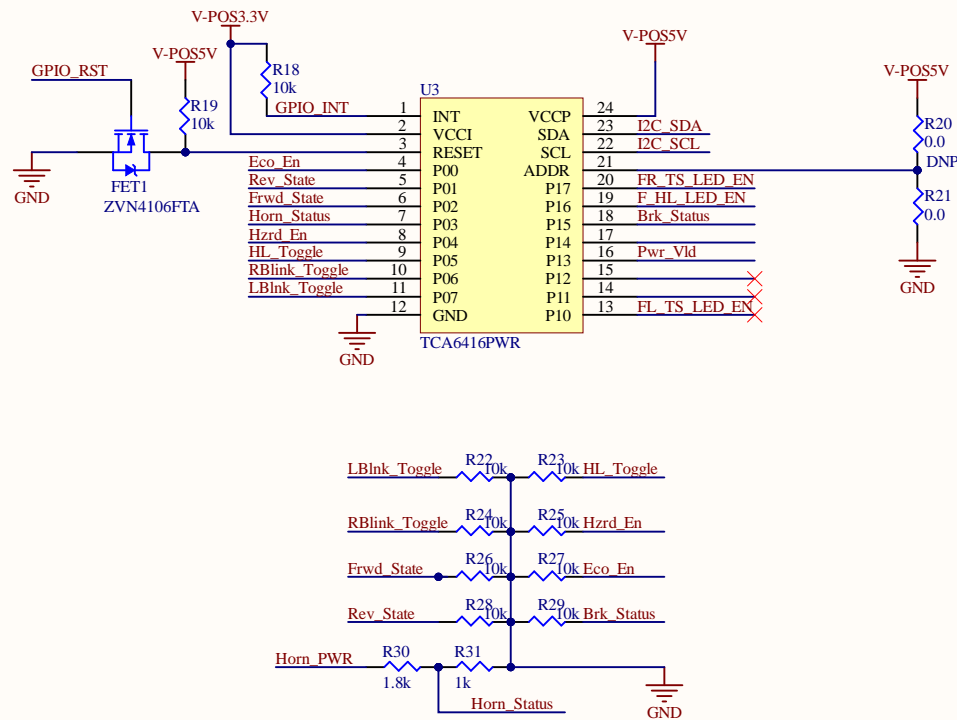
Title <b>5V Power</b>			Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Olivia D'Souza		Revision: A		
Date: 4/3/2022	Time: 11:57:57 AM	Sheet 1 of 1		
File: power_5v.SchDoc				



Title <b>ADC</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>		
Date: 4/3/2022	Time: 11:57:39 AM		
File: adc.SchDoc	Sheet 1 of 1		



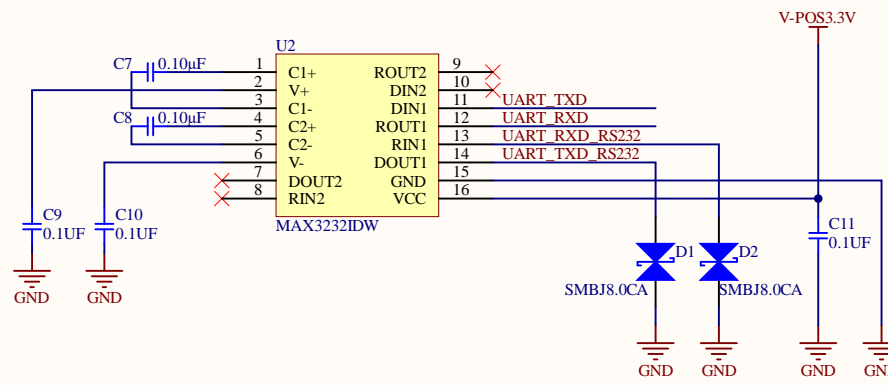
Title <b>MCU</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregor Farah</b>	Revision: <b>A</b>		
Date: 4/3/2022	Time: 11:57:52 AM		
File: MCU.SchDoc	Sheet 1 of 1		




Title <b>GPIO</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: <b>McGregorFarah</b>	Revision: <b>A</b>		
Date: 4/3/2022	Time: 11:57:51 AM		
File: gpio.SchDoc	Sheet 1 of 1		

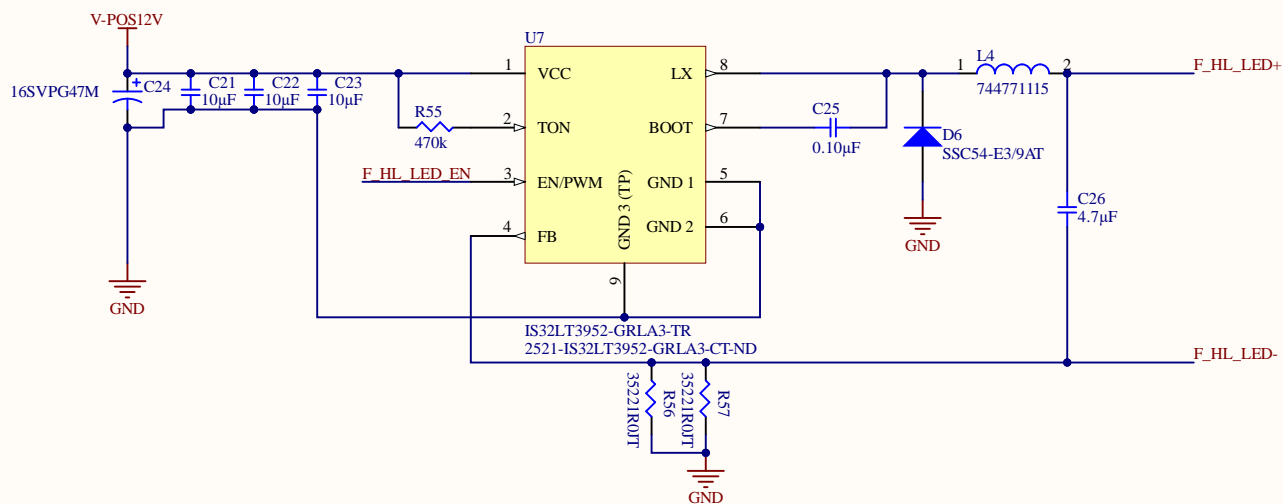







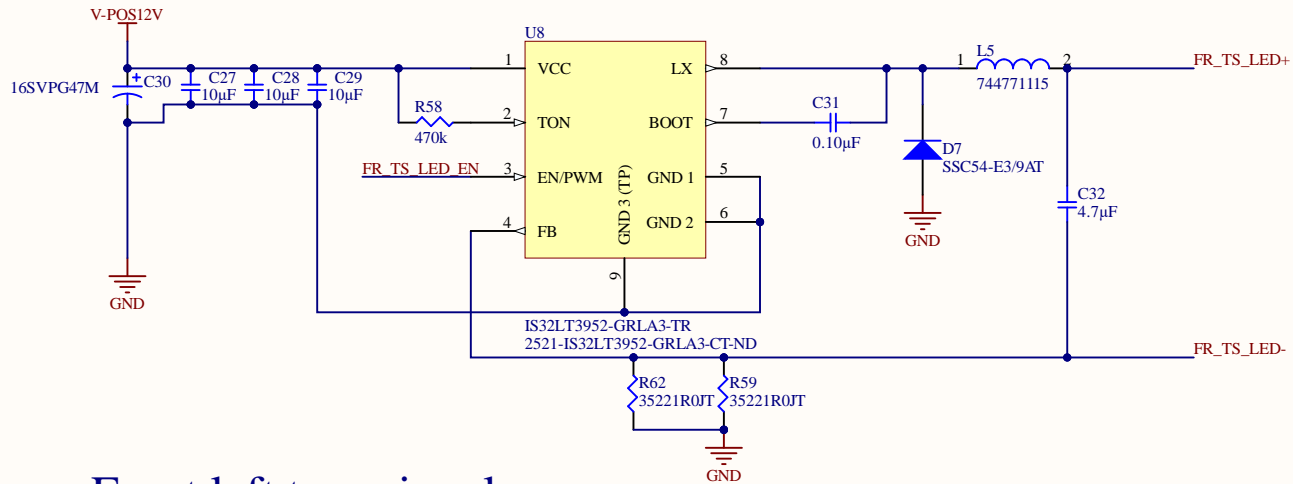
Title <i><b>Serial Interface</b></i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, Wi 53706		
Engineer: <b>Zach Gunderson</b>	Revision: <b>A</b>			
Date: <b>4/3/2022</b>	Time: <b>11:57:58 AM</b>	Sheet <b>1</b> of <b>1</b>		
File: <b>Serial_Interface.SchDoc</b>				

# Front headlight

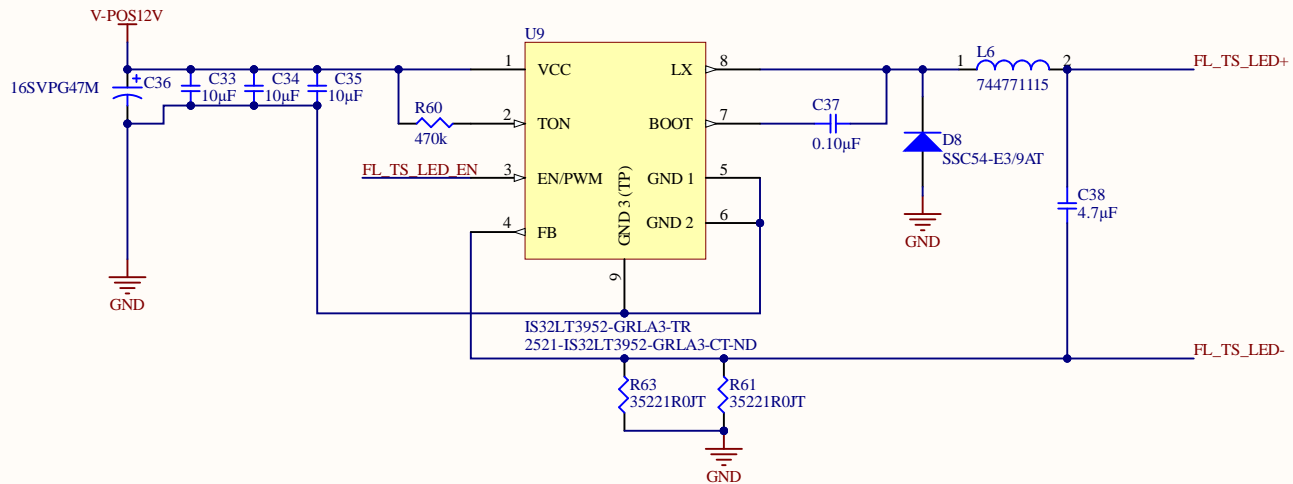



Title <b>Headlight Driver</b>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Alec Marshall	Revision: A		
Date: 4/3/2022	Time: 11:57:47 AM		
File: ext_light_interface_frontheadlight.SchDoc		Sheet 1 of 1	

## Front right turn signal

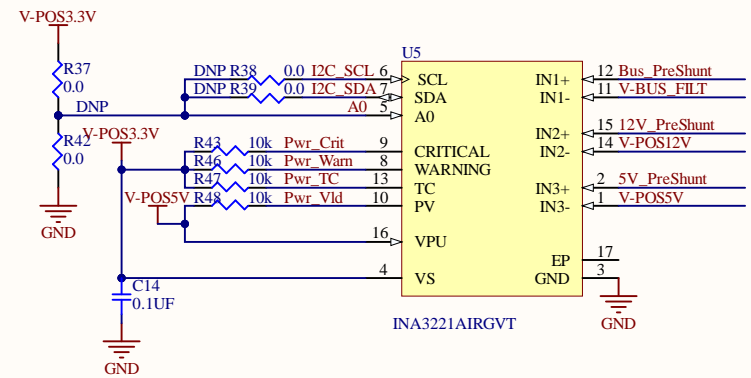
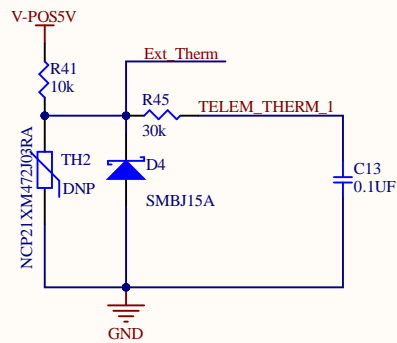
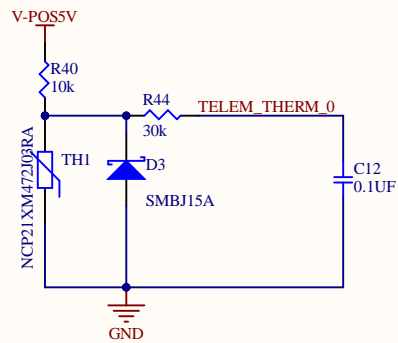



## Front left turn signal



Title <i>Front Blinker Drivers</i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706		
Engineer: Alec Marshall	Revision: A			
Date: 4/3/2022	Time: 11:57:49 AM	Sheet 1 of 1		
File: ext_light_interface_frontturn.SchDoc				

**BADGER**  
**LOOP**



Title <i>Miscellaneous Sensors</i>		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706		
Engineer: Marton Bocsi, McGregor Farah	Revision: A			
Date: 4/3/2022	Time: 11:57:54 AM			
Sheet 1 of 1				
File: misc_sensors.SchDoc				

