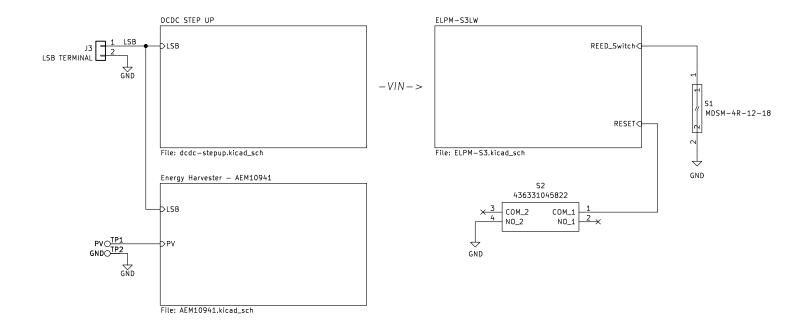
Smart Door/Window Sensor

Energy harvesting version



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Source location: https://www.ohhv.org/project/wr-switch-hw
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this documentation.

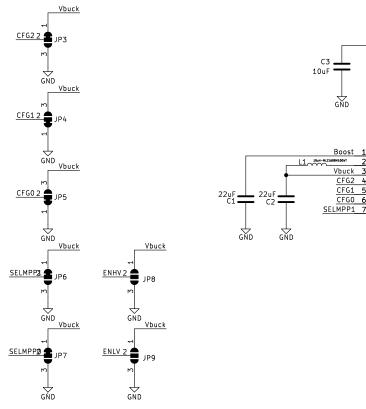
OBJEX LABS	ODJEV				
Author: Salvatore Raccardi					
Rev Author: Salv	D				
Sheet: /	OBJEXLABS.COM				
File: SmartDoorS	Rev: 1.3				
Size: A4	Date: 2023-07-20	KiCad E.D.A. 8.0.2	ld: 1/5		

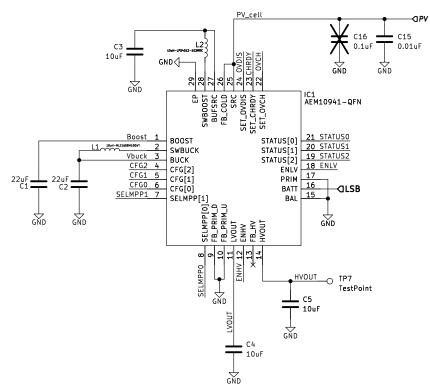
Title: Smart Door/Window Sensor - EH version

OBIEV

AEM10941

Solar Energy Harvesting





Boost	7	
	巾	R5
	Ш	TBD
		OVDIS
	Ţ	
	Ш	R6
	Ų	TBD
	-	_CHRDY
	Н	D.7
	Ш	R7 TBD
	Y	OVCH
	+	_OVCH
	\perp	R8
	Ш	TBD
	Τ	
	\uparrow	
	GND	

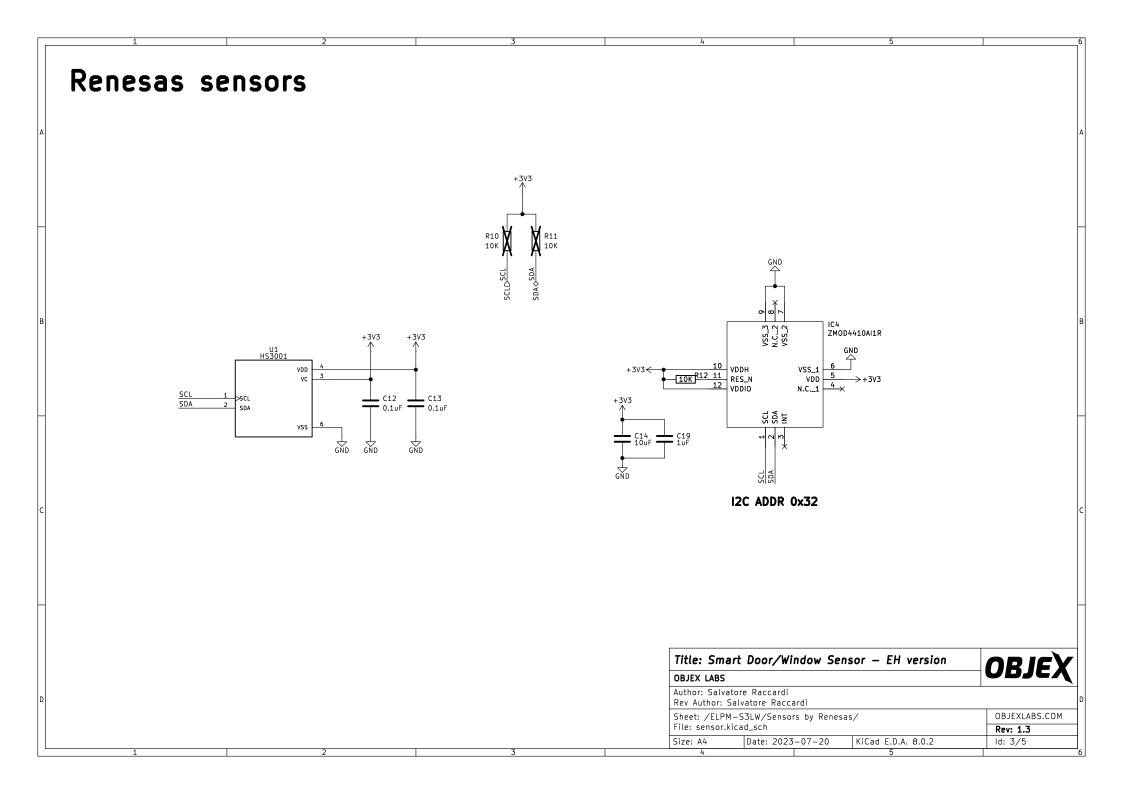
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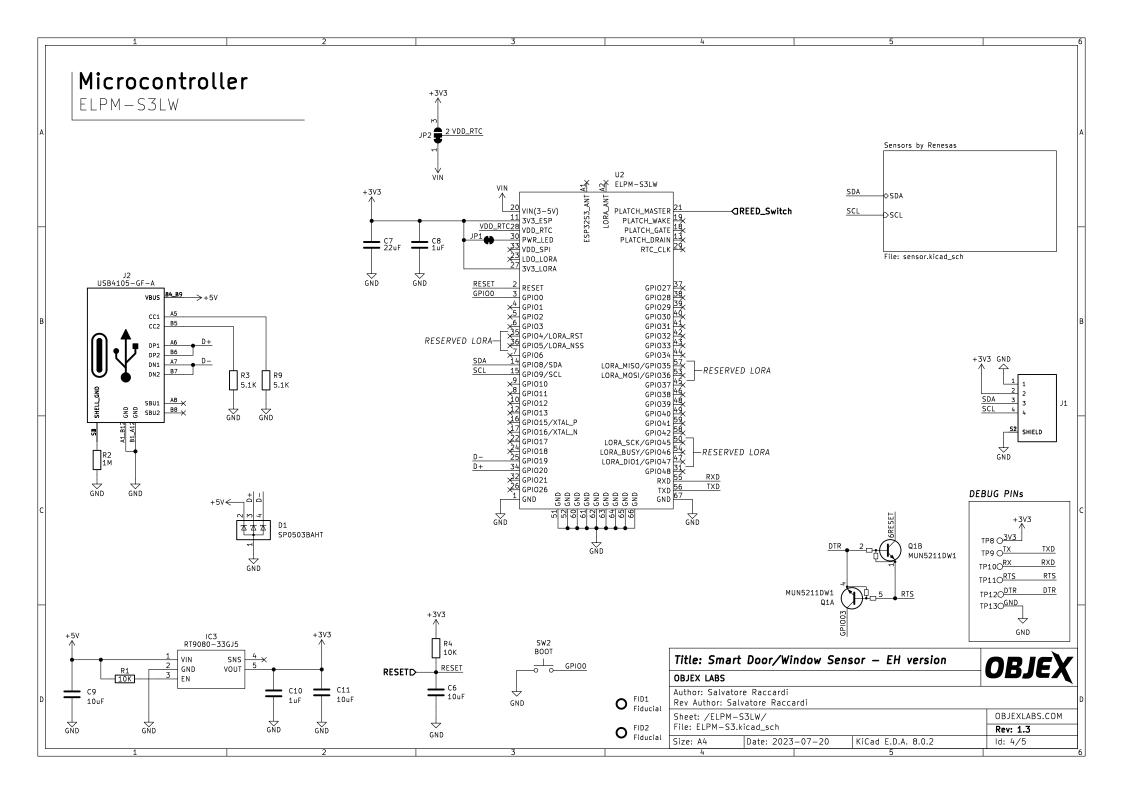
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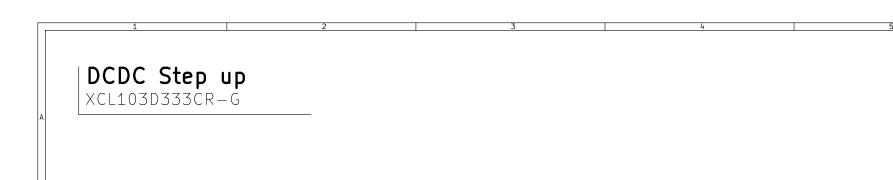
ENLV	ENHV	LV output	HV output	SELMPP[1]	SELMPP[0]	Vmpp/Voo
1	1	Enabled	Enabled	0	0	70%
1	0	Enabled	Disabled	0	1	75%
0	1	Disabled	Enabled	1	0	85%
0	0	Disabled	Disabled	1	1	90%

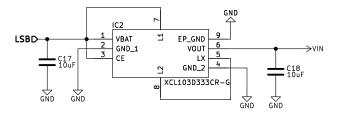
Confi	iguration	n pins	Storage ele	ement thresho	old voltages	ges LDOs output voita		Typical use
CFG[2]	CFG[1]	CFG[0]	Vovch	Vchrdy	Vovdis	Vhv	VIv	
1	1	1	4.12 V	3.67 V	3.60 V	3.3 V	1.8 V	Li-ion battery
1	1	0	4.12 V	4.04 V	3.60 V	3.3 V	1.8 V	Solid state battery
1	0	1	4.12 V	3.67 V	3.01 V	2.5 V	1.8 V	Li-ion/NiMH battery
1	0	0	2.70 V	2.30 V	2.20 V	1.8 V	1.2 V	Single-cell supercapacitor
0	1	1	4.50 V	3.67 V	2.80 V	2.5 V	1.8 V	Dual-cell supercapacitor
0	1	0	4.50 V	3.92 V	3.60 V	3.3 V	1.8 V	Dual-cell supercapacitor
0	0	1	3.63 V	3.10 V	2.80 V	2.5 V	1.8 V	LiFePO4 battery
0	0	0	Custom mode - Programmable through R1 to R6				1.8 V	

Title: Smar	OBJEX					
OBJEX LABS		ODJEN				
Author: Salvatore Raccardi Rev Author: Salvatore Raccardi						
Sheet: /Energy Harvester - AEM10941/ OBJEXLABS.COM						
File: AEM1094:	Rev: 1.3					
Size: A4	Date: 2023	3-07-20 KiCad E.D.A. 8.0.2 Id: 2/5				
4		5				









Title: Smart	OBJEX					
OBJEX LABS	ODICA					
Author: Salvatore Raccardi Rev Author: Salvatore Raccardi						
Sheet: /DCDC S	OBJEXLABS.COM					
File: dcdc—stepı	Rev: 1.3					
Size: A4	Date: 2023-07-20	KiCad E.D.A. 8.0.2	ld: 5/5			
/1		5				