Parts List For Stair Aware   Google Sheet Moved

Part Image	Part Type	Part Name	Link To Part	Data Sheet	Notes	Part Delivery Date	Price	Order Status	Delivery Status
Best Bet IR Sensor					**But Two Dozen**				
	Infrared Phototransistor	Infrared Phototransistor | Lite-On No. LTR-3208E	http://shop.evilmadscientist.com/productsmenu/partsmenu/437-phototran		Put in on final object component every 1.5 inches.		$0.70		
	Infrared 5 mm LED	Infrared 5 mm LED	http://shop.evilmadscientist.com/productsmenu/partsmenu/344-ir5		Put in on final object component every 1.5 inches.		$0.39		
Good Ir Sensor- Too Expensive For One									
	Sensor & Light Combo Unit	IR distance sensor includes cable (10cm-80cm) - GP2Y0A21YK0F	https://www.adafruit.com/products/164	http://www.sharp-world.com/products/device/lineup/data/pdf/datasheet/gp2y0a21yk_e.pdf		00/00/16	$14.95		
Back Up Sensor For Testing									
	IR Reciever	TSOP 4838 Whole Kit With IR LED	http://www.mouser.com/ProductDetail/Vishay-Semiconductors/TSOP4838/?qs=yGXpg7PJZCiwO12kec0Sug%3D%3D	https://www.dropbox.com/s/9tmh7x3ui6l7v80/tsop4838_datasheet.pdf?dl=0	This is what we got from Michael. We already have this on the board and are prototyping with it already.	ON HAND ALREADY	$0.00		
	Infra-red Receiver	Infra-red Receiver Sensor (CHQ 1838) Whole Kit Including IR LED's & Remote	https://www.buyapi.ca/product/infra-red-receiver-sensor-chq-1838/	http://arduino-info.wikispaces.com/file/view/IR-Receiver-AX-1838HS.pdf/264668680/IR-Receiver-AX-1838HS.pdf	I have this on hand, found a tutorial that goes with it and I have a remote.	ON HAND ALREADY	$0.00		
MUX									
	Analog /Digital Mux	SparkFun Analog/Digital MUX Breakout - CD74HC4067	https://www.sparkfun.com/products/9056	https://www.sparkfun.com/datasheets/IC/cd74hc4067.pdf	Check with JD on this. GroBenn 25 called for one. You definied what this does in documenation 2 work session	00/00/16	$4.95		
LED Driver Breakout (That Thing Ola Used For Motors)									

	Part	Description	Link	Datasheet	Notes	Date	Price		
	LED Driver Breakout	SparkFun LED Driver Breakout - TLC5940 (16 Channel)	https://www.sparkfun.com/products/10616	https://www.sparkfun.com/datasheets/Components/General/tlc5940.pdf	Check with JD on this. Ola's project documenation should have more info on this.	00/00/16	$12.95		

Main LED's

	Part	Description	Link	Datasheet	Notes	Date	Price		
	SAFE BET LED	Adafruit DotStar Digital LED Strip - Black 144 LED/m - One Meter - BLACK	https://www.adafruit.com/products/2241	https://cdn-shop.adafruit.com/datasheets/APA102.pdf	This looks good and was the originals that Kailen called out. I think we should start here. Comes in 5 meter strips cut if less.	00/00/16	$74.95		
	Led Receptors Male Femail For Cut Strips	4-pin JST SM Plug + Receptacle Cable Set	https://www.adafruit.com/products/578	https://cdn-shop.adafruit.com/datasheets/JSTSM.pdf	Have to have these on hand when the led strips get cut. I am thinking we might build these in to the prism tubes for easy connect up. Think about that in object design.	00/00/16	$1.50		

LED's Cheaper Supplier / Not sure if part quality is the same

	Part	Description	Link	Datasheet	Notes	Date	Price		
	LED STRIP weather proof strip	1m DC5V APA102C led pixel srip,IP33;144pcs APA102-5050 LED/M 144pixels;WHITE PCB,in silicon tube;with DATA and CLOCK seperately	https://www.aliexpress.com/store/product/1m-DC5V-APA102-led-pixel-srip-IP33-144pcs-APA102-5050-LED-M-144pixels-WHITE-PCB-in/701799_32244460348.html		I am a little worried about shipping time and the price difference, but when you go to mfg this long term this might be something to consider.	00/00/16	$19.00		

Power One Meter

	Part	Description	Link	Datasheet	Notes	Date	Price		
	One Meter Power	5V 4A (4000mA) switching power supply - UL Listed	https://www.adafruit.com/product/1466		can power half meter or full meter:	00/00/16	$14.95		

Power Multiple Meters

	Part	Description	Link	Datasheet	Notes	Date	Price		
	Multi Meter Power	5V 10A switching power supply	https://www.adafruit.com/products/658		power a couple of meters	00/00/16	$25.00		

Power Adapters

	Power Cable Adapters	Female DC Power adapter - 2.1mm jack to screw terminal block	https://www.adafruit.com/products/368		This is convert power super easy plug and unplug down to your components.	00/00/16	$2.00
Boards We Have And Could Use							
	Particle Phon	Particle Photon Dev Kit.	https://store.particle.io/#photon		See documenation for full links	00/00/16	$19.00
	Adruino MKR1000	Arduino MKR1000	https://www.arduino.cc/en/Main/ArduinoMKR1000		New Board Kailen Has	00/00/16	$34.99
	Arduino Uno Rev 3	Arduino Uno Rev 3	https://store-usa.arduino.cc/products/a000066?utm_source=redirects&utm_medium=store.arduino.cc&utm_campaign=303_Redirects		Current Wire Up Scenario. No internet capability	00/00/16	$24.95
xxx							