

Declaration of Similarity

Date: 14-Aug-2023

TO WHOMSOEVER IT MAY CONCERN

We, **Building Robotics Inc. (BRI), a Siemens Company**, located at **3979 Freedom Circle, Suite 210, Santa Clara, CA 95054, United States** hereby declare that the family of products we sell under **SU-6E** are similar to one another and electrically same for radio and EMI/EMC compliance.

The detailed Micro Sensor model similarities for SU-6E-2W, SU-6E-2W-LR, RM-6E-2W, RM-6E-2W-LR, SU-6E-8W, SU-6E-8W-LR, RM-6E-8W & RM-6E-8W-LR are presented as annexure to this document.

Regards,



Applicant Signature

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Annexure: Micro Sensor model similarities

Model / PMN	Rated Voltage	Circuit diagram / Schematic	Overall PCB Layout	RF Section (including Antenna)	Construction/ Shape of Enclosure	Product Image
SU-6E-2W	9.5-22.5V DC	Wireless RF modules section, PIR Sensor, Power supply section	PCB: 15-03236-03	Wireless RF modules section contains NRF52840 IC & AT86RF233 IC	The sensor body is black with a white rim.	
SU-6E-2W-LR	9.5-22.5V DC	Electrically same as SU-6E-2W, except product enclosure change	Same as SU-6E-2W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure changed for outdoor applications with IP65 rating	
RM-6E-2W	9.5-22.5V DC	Electrically same as SU-6E-2W, except PIR sensor removed (BOM change)	Same as SU-6E-2W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure color changed to grey	

Model / PMN	Rated Voltage	Circuit diagram / Schematic	Overall PCB Layout	RF Section (including Antenna)	Construction/ Shape of Enclosure	Product Image
RM-6E-2W-LR	9.5 - 22.5V DC	Electrically same as SU-6E-2W, except PIR sensor removed (BOM change) and enclosure change	Same as SU-6E-2W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure changed for outdoor applications with IP65 rating	
SU-6E-8W	12-30V DC	Electrically same as SU-6E-2W, except IO interface power module	PCB: 15-03554-04	Same as SU-6E-2W	The sensor body is black with a white rim	
SU-6E-8W-LR	12-30V DC	Electrically same as SU-6E-8W, except product enclosure change	Same as SU-6E-8W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure changed for outdoor applications with IP65 rating	

Model / PMN	Rated Voltage	Circuit diagram / Schematic	Overall PCB Layout	RF Section (including Antenna)	Construction/ Shape of Enclosure	Product Image
RM-6E-8W	12-30V DC	Electrically same as SU-6E-8W, except PIR sensor removed (BOM change)	Same as SU-6E-8W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure color changed to grey	
RM-6E-8W-LR	12-30V DC	Electrically same as SU-6E-8W, except PIR sensor removed (BOM change) and enclosure change	Same as SU-6E-8W	Same as SU-6E-2W	Electrically same as SU-6E-2W, enclosure changed for outdoor applications with IP65 rating	

The PCB change is categorized in below table:

Model / PMN	Rated Voltage	Circuit diagram / Schematic	Category of Change
SU-6E-2W	9.5-22.5V DC	Originally Granted	-NA-
SU-6E-8W	12-30V DC	Electrically same as SU-6E-2W, power module supports up to 30V maximum	The actual DUT tested had PCB:15-03236-03 version. Post approval the final version is updated in production, and PCB revised as PCB:15-03554-04. There are no changes in the Design.