



June 30th, 2025

Jessica Browning

Technology Associate I

C +1 216 462 4540

jessica.browning@currentlighting.com

TO: Federal Communications Commission

Authorization and Evaluation Division

7435 Oakland Mills Road

Columbia, MD 21046, USA

RE: Model Differences for FCC ID: [YH9NXSMP3](#)

Please be notified that we, the undersigned, HLI Solutions, Inc, declare that the differences among the product models of the NXSMP3 family to be as described below.

Table 1 shown below summarizes the differences between the different models (HVINs).

Table 1: Summary of Model Differences

Model (HVIN)	Short Description (PMN)	Power Board	Sensor Board	Housing Assembly	Housing Color Options
NXSMP3-LMI	NX Low Mount Indoor Sensor Module	93167650-2001	93167586-2004	LMI	White, Black, Gray
BTXSMP-LMI	BTX Low Mount Indoor Sensor Module	93167650-2001	93167586-2007		White, Black, Gray
NXSMP3-LMO	NX Low Mount Outdoor Sensor Module	93167650-2001	93167586-2005	LMO	White, Black, Gray
BTXSMP-LMO	BTX Low Mount Outdoor Sensor Module	93167650-2001	93167586-2008		White, Black, Gray
NXSMP3-HMO	NX High Mount Outdoor Sensor Module	93167650-2001	93167586-2005	HMO	White, Black, Gray
BTXSMP-HMO	BTX High Mount Outdoor Sensor Module	93167650-2001	93167586-2008		White, Black, Gray
NXSMP3-OMNI	NX OMNI Indoor / Outdoor Sensor	93167650-2001	93167586-2005	OMNI	White, Black, Gray
BTXSMP-OMNI	BTX OMNI Indoor / Outdoor Sensor	93167650-2001	93167586-2008		White, Black, Gray
NXSMP3-RM	NX Radio Module	93167650-2001	93167586-2006	RM	White, Black, Gray



Each model consists of a printed circuit board assembly that includes a "Power Board," which houses non-RF circuitry, and a "Sensor Board," which contains both RF and non-RF circuitry.

The "Power Board" assembly is consistent across all models and is designated by the part number 93167650-2001. There are no variations in component population on the Power Board for any models within the NXSMP3 product family.

For the Sensor Board, all models have an identical PCB layout and schematic, with differences only in the component population for the non-RF circuitry.

The component population differences of the non-RF circuitry are outlined below.

- The NXSMP3-LMO, NXSMP3-HMO, and NXSMP3-OMNI are identical (93167586-2005).
- The only difference between the NXSMP3-LMO, NXSMP3-HMO, and NXSMP3-OMNI (93167586-2005) and the NXSMP3-LMI (93167586-2004) is the length of the stacker connectors used to hold the Power Board to the Sensor Board.
- The NXSMP3-RM (93167586-2006) is the same as the NXSMP3-LMI (93167586-2004), but without the Passive Infrared (PIR) sensor, light sensor, and their supporting components (pull-up resistors, decoupling capacitors).
- BTXSMP models differ from NXSMP3 models due to the removal of the emergency lighting control circuit, real-time clock, and battery.

Details regarding the component population for the various "Sensor Board" assemblies can be found in both the Schematic exhibit and the Internal Photos exhibit.

Each model's top-level assembly contains a housing back, housing cover, PIR lens, and printed circuit board assembly. The housing mechanical components vary across the models to accommodate different PIR sensor lenses.

The NXSMP3 and BTXSMP models with the same suffix share the same mechanical housing components. For example, NXSMP3-LMI and BTXSMP-LMI have identical housing parts. Details are provided in the Internal Photos and External Photos exhibits.

The NXSMP3 product family is available in three colors including white, gray, and black. Photos of the different colors can be found in the External Photos exhibit.

In conclusion, the models within the NXSMP3 product family have minor differences in non-RF circuitry components and mechanical parts. If necessary, additional information about these models can be provided.

Sincerely,

Applicant Signature:

Applicant printed name:

Jessica Browning