

## Model 8800 Operational Description

### Intended Use

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The 3M Detection System Model 8800 series is intended for use in detecting books that have not been checked out by library patrons. The system is typically placed at the exit point of a library such that patrons must walk through it when exiting the building or facility, and provides an audio and visual alarm if unchecked materials are detected.

The system must be installed as specified in the **Model 8800 Series Contractors Package**, and is intended for use in an indoor library environment. It has not been evaluated for other uses or locations.

The reader has a transmit frequency of 13.56 MHz. And a power output level of 4.00 watts (36 dBm) as measured into a 50-ohm load. The output of the Reader goes into a splitter board that divides the power to the antenna within each lattice.

The EUT has an integral antenna with an area of 10 square feet (0.928 square meters) enclosed within each lattice

All tests were made using an input of 120 V RMS, 60 Hz, and single-phase power. The EUT was tested as normally install into a library and exercising all functions. The Reader was set to the fastest read time and was detecting tags during all testing.