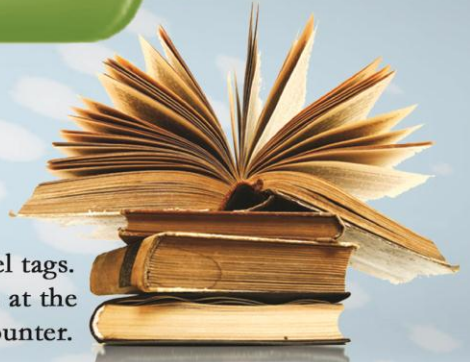


LIBRARY SURVEILLANCE & CONTROL SYSTEMS



A security system for preventing theft in Libraries that uses label tags. An alarm is triggered when walking through detection pedestals at the Library exit if a label tag was not deactivated at the checkout counter.

RFID SYSTEM (RADIO FREQUENCY IDENTIFICATION)

RFID can be used library circulation and theft detection systems. RFID-based systems move beyond security to become tracking systems that combine security with more efficient tracking of materials throughout the library, including easier and faster charge and discharge, inventorying, and materials handling.



EM (ELECTROMAGNETIC) SYSTEM

EM tags have a metal strip or wire that is demagnetized for activation. A low-frequency alternating current is transmitted from the pedestal, and the tag generates harmonic frequencies that are picked up by the receiver using signal processing. To deactivate disposable EM tags, the tag is magnetized at the checkout counter.

RF (RADIO FREQUENCY) SYSTEM

RF uses a transmitter to create a surveillance area where tags and labels are detected. The transmitter sends a signal that varies between 7.4 and 9.5 MHz (millions of cycles per second), which is why it is called swept; it sweeps over a range of frequencies.



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