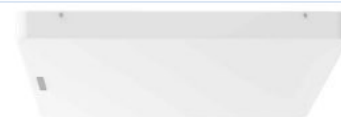


Advansafe 300

Overhead RFID loss prevention with beam steering and mmWave sensing

Overview

An overhead loss-prevention system that leaves the entrance clear of pedestals. It combines RFID beam steering with a millimetre-wave sensor to tell moving tags from static ones and to confirm a person actually crossed the threshold, which is what keeps false alarms down. It also records direction of travel, so alarms only fire on the way out.



Technical specifications

Operating frequency	FCC 902-928 MHz; ETSI 865.6-867.6 MHz; Chile and Peru 916-928 MHz by channel selection; 14 regional plans
Detection height	2.5-3 m recommended, 3.5 m maximum
Radiation pattern	Multiple beam (beam steering)
Beam width	90 deg / 40 deg
Polarisation	Circular
Reader power	Maximum 31.5 dBm; 30 dBm recommended
Radiated power	2 W ERP, 3.2 W EIRP
Transponder protocol	EPC Class 1 Gen2 / Gen2X
EAS verification	NXP EAS bit, Impinj Gen2X Protected Mode, or EPC pattern matching
Alarm	LED light and buzzer; dry contact relay output 24 VDC / 0.5 A resistive
Interface	Ethernet and USB
Operating system	Linux
Power supply	Power over Ethernet
Energy consumption	Under 14 W max, under 3 W idle
Temperature range	-20 °C to +55 °C
Dimensions	482 x 482 x 78 mm suspension; 482 x 482 x 92 mm ceiling or flush
Weight	Primary 3.7-4.8 kg, secondary 3.4-4.5 kg depending on mount
Housing	Co-extruded ABS acrylic, off white

Common uses

- Store entrance loss prevention
- Shrinkage analytics by product
- Exit direction detection
- Multi-door installations from one primary unit

Use case: Store exit without pedestals

