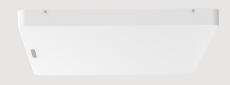


AdvanSafe-300 ™

Overhead RFID loss prevention system





Barcelona London Los Angeles







Video

Benefits:

- Improved store aesthetics, by having a store entrance free from obstacles
- Shrinkage reduction
- Minimization of false alarms with its beam steering technology
- Combination of loss-prevention and product identification in one system
- Provides data to detect which products suffer more theft attempts
- Very quick detection
- Continuous detection area
- One master unit can be connected to a slave unit, which reduces costs

Applications:

- Loss prevention at retail stores
- Loss prevention at warehouses

Product overview

AdvanSafe is an **overhead loss prevention system** based on RFID UHF that detects the tagged items that pass through an entrance, verifies if those items have been purchased, and triggers an acoustic and/or visual alarm if any item has not been purchased.

AdvanSafe uses **beam steering** to detect which tags are static and which are moving, avoiding false alarms.

AdvanSafe can use multiple configurations for checking if a tagged item has been paid:

- Checks the EAS bit of NXP chips or Impinj Gen2x Protected Mode
 Checks if the EPC code includes a pre-defined pattern that signals that the product has or not been paid
- Checks against the POS database if the product has been purchased
- Checks against AdvanCloud EAS module if the product has been purchased
- Checks bulk theft: trigger an alarm if a certain number of tags are read in a certain time period (e.g. a few seconds)

AdvanSafe uses primary units and secondary units:

- The primary unit has an integrated reader, antenna, controller, acoustic alarm and visual alarm
 - The secondary unit comprises antenna and visual alarm

One secondary unit can be connected up to one primary unit. This reduces costs for stores with wide entrances.

AdvanSafe has several 5V 100mA GPOs and a Relay.

AdvanSafe works with any hard and soft Gen2 RFID UHF tags. The tag chip and inlay chosen should provide a reading distance longer than the height at which AdvanSafe-300 will be installed in all tag orientations.

AdvanSafe-300 includes advanced processing techniques for minimizing false alarms.

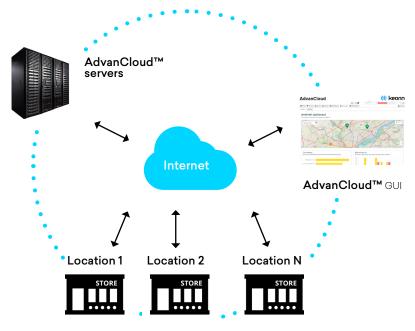
AdvanSafe can be ordered in 3 models:

- Suspended wires mount
- Ceiling mount
- Flush installation



Connection to AdvanCloud

AdvanSafe can be optionally connected to AdvanCloud cloud-based software platform.



The products that trigger an alarm can be shown on a **smartphone** managed by store staff or security staff, in order to:

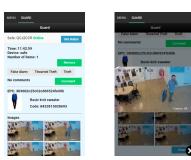
- Thwart theft attempts
- Register the event: false alarm, thwarted theft, theft



This information can then be analyzed for **business intelligence** purposes:

- Theft attempts by day and time of day
- Products that suffer more theft attempts
- Stores with more theft activity
- •

Optionally, AdvanSafe can be connected to a camera and send images of the person passing by when the alarm is triggered, to any smartphone.







Anti-theft dashboard

If AdvanSafe is connected to AdvanCloud, the status of AdvanSafe as well as the alarms triggered can be monitored through the AdvanCloud loss-prevention dashboard.



The alarms historical by shops are shown on the dashboard with details of machine status.

The dashboard will show your active systems on the map, providing alarm information.

Device remote management

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List of devices (online/offline)

Check if devices connected to AdvanCloud are online (green) or offline (red).

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Remote Acces to AdvanNet (Keonn RFID readers)

Acces remotely to AdvanNet from AdvanCloud for managing Keonn RFID readers.

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Check device health status

Monitor the active device's health with detailed diagnostics of errors.





Technical Specifications



SRR Ausi New Operating Frequency Japi Braz Chil Per. Taiw Ope	II UPPER (915 - 921) MHz 2: (KR) (910 - 914) MHz 3: (KR) (910 - 914) MHz 4: (C-MII (P.R.China) (920.125 - 924.875) MHz (1) 4: Tralia (AU) (920.750 - 925.250) MHz 9: Zealand (NZ) (922.250 - 927.250) MHz 9: I (915.0 - 917.0) MHz (2) an (JP) (916.8 - 920.8) MHz (3) 1: I (902 - 907.5) MHz (915 - 928) MHz by using channel selection 1: I (902 - 907.5) MHz (915 - 928) MHz by using channel selection 1: I (902 - 928) MHz by using channel selection 1: I (916 - 928) MHz by using channel selection 1: I (916 - 928) MHz by using channel selection 1: I (916 - 928) MHz by using channel selection 1: I (916 - 928) MHz by Using channel selection 1: I (916 - 928) MHz by Using channel selection 1: I (916 - 928) MHz by Using channel selection 1: I (916 - 928) MHz by USING channel selection 1: I (916 - 928) MHz by
Detection Height Max (Use	3 m (recommended) kimum: 3.5 m e maximum height with caution. Read distance depends highly on tag del and products being used)
Radiation pattern Mul-	tiple beam
Beam width 90°,	/ 40° (surrounding widths of all beams)
Polarization Circ	ular
Alarm Light Ligh	nt Emitting Diode (LED)
Alarm Audio Sigr	nal Buzzer
	contact output /DC / 0.5 A / Resistive load
Alarm Tunction Preset	tem gives audio and light alarm by detection of any of the EAS ported modes
Power supply Pow	ver over Ethernet
Energy Consumption <14	W max., < 3 W idle
Reader Power regu	imum 31,5 dBm (may be limited to conform to country or area Jlations) ommended max. 30 dBm
Radiated power 2 W	ERP, 3.2 W EIRP
Interface Ethe	arnet and USB
Transponder Protocol Standard EPC	Class1 Gen2 / Gen2x
Operating System Linu	Х
Temperature range -20°	'C to +55°C
48 Dimensions 48 Flus	pension mount 2 mm x 482 mm x 78 mm (19in x 19in x 3.1 in) ing mount 2 mm x 482 mm x 92 mm (19in x 19in x 3.6 in) h installation 2 mm x 482 mm x 92 mm (19in x 19in x 3.6 in)
Prin Ceil Prin Flus	pension mount nary unit: 61 Kg (13.4 lb) ing mount nary unit: 66 Kg (14.6 lb) h installation nary unit: 7.2 Kg (2.2 lb)
Material Housing Co-	extruded ABS acrylic
Color Blac	white :k tom based on volume
Human exposure EN 5	50364
EMC EN 3	301 489, EN 300 220
Air Interface (EU) EN 3	302 208 v1.2

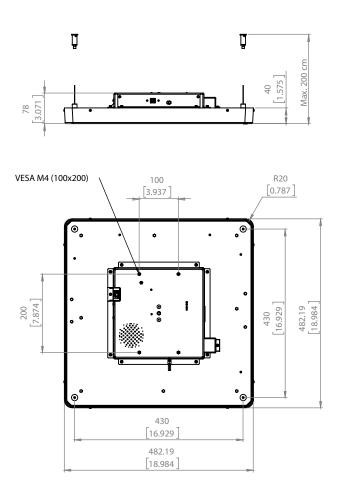
(1) RF conducted power is limited to 30 dBm.

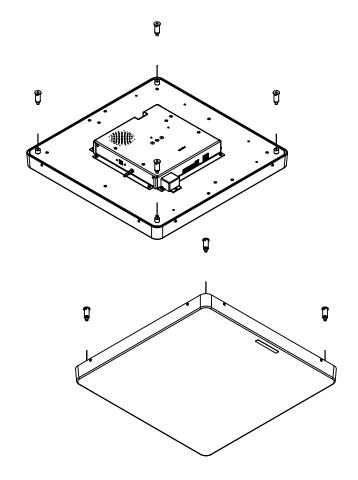
(2) Open channel specified applies to ETSI/FCC versions.

(3) Band is defined as a carrier sub-set from FCC. There is no specific Surface Acoustic Wave (SAW) filter for the band. Given the maximum conducted power there shouldn't be problems with local regulation.



Mechanical specifications of the model with suspended wires

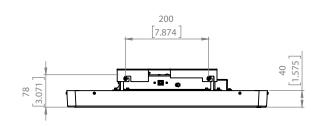


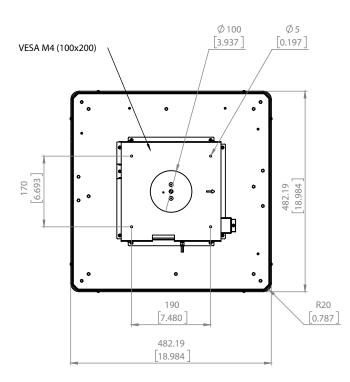


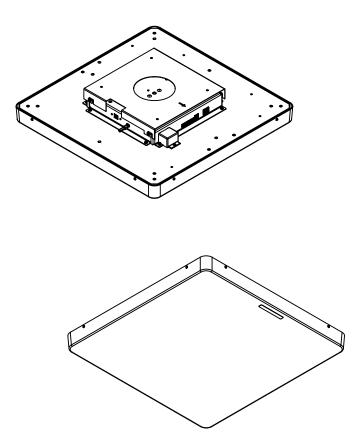
Units in millimeters and [inches]



Mechanical specifications of the model ceiling mount



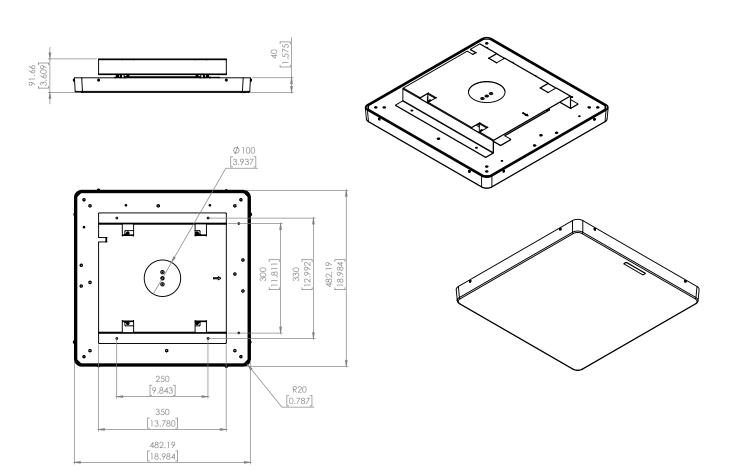




Units in millimeters and [inches]



Mechanical specifications of the flush installation



Units in millimeters and [inches]



Product codes for ordering

ADSF	-	ο	т	м	-	FF	-	ммм	
									O = overhead
		0							Overhead
									T = type
			М						Primary
			S						Secondary
									M = mount
				С					Ceiling mount (attached to the ceiling or suspended with a pole, pole not included)
				F					Flush installation
				S					Suspended with metallic wires (inclu- ded)
									FF = frequency band
						LB			Lower Band
						UB			Upper Band
									MMM = model
								300	Model number

Examples:

ADSF-OMS-UB-300:

- AdvanSafe
- Overhead
- Primary unit
- Suspension mount
- Upper band
- Model 300

ADSF-OSC-LB-300:

- AdvanSafe
- Overhead
- Secondary unit
- Ceiling mount
- Lower Band
- Model 300

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Barcelona London Los Angeles