





Frame specification - Active RFID

1. CONCERNED PRODUCTS

The **PUCK** format differs from the **COIN** format in that it offers **increased transmission power without reducing the autonomy**. In addition, the RHT (humidity + temperature) sensor is only available in PUCK format.

PRODUCTS	REFERENCES	
SLIM ID	IDF0348X	
COIN ID	IDF1034X	
WATCH ID	IDP2735X	
THINLINE IR	IDP0231X	
PUCK ID	IDF2573X	
PUCK T	IDF2574X	
COIN T	IDF1044X	
PUCK RHT	IDF2572X	
PUCK MOV	IDF2562X	
COIN MOV	IDF1062X	
PUCK MAG	IDF2564X	
COIN MAG	IDF1064X	
ITEM TD	IDF1075X	
COIN LUX	IDF0943X	

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2. FRAME SPECIFICATION

Here's how the information from each tag or sensor is encoded for 24-bit frames:

2.1 ID



NN : Reception level

XXXXXX : Tag ID number
LL : Receiver ID number
Low Bat alert : 2XXXXX

2.2 SLIM ID

The frame is the same as for the ID, there is in addition a tear-off alert:

Low Bat alert: 2XXXXXTear-off alert: 1XXXXX

Low Bat + Tear-off alert: 3XXXXX

2.3 MOV



• NN : Reception level

XXX : Tag ID number

• FFF: Sensor information: acceleration or corner crossing. Refer to the MOV user's guide for more details. (In Low bat, value is: XXX7FF)

LL: Receiver ID number

2.4 MAG



NN : Reception level

XXX : Tag ID number

• PPP: Sensor information: Presence of the magnet + counter (XXX7FF for Low Bat alert)

LL: Receiver ID number

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2.5 LUX



- NN : Reception level
- XXX : Tag ID number
- YZZ : Sensor information: Lightness (In Low bat, value is : XXX7FF)
- Y : result exponent (EXP)
- ZZ : mantissa of the result (MAN)
- Lightness (in lux) = (MAN) x 0.16 x 2^{EXP}
- LL: Receiver ID number

2.6 T



- NN : Reception level
- XXX : Tag ID number
- TTT: Sensor information: Temperature. (In Low bat, value is XXX7FF)
- LL: Receiver ID number

2.7 RHT



- NN : Reception level
- XXX : Tag ID number
- **8XXTTT:** temperature information (In Low bat, value is XXX**7FF**)
- 9XXHHH: Relative humidity information (In Low bat, value is: XXXFFF)
- LL: Receiver ID number

It is possible to configure tags and sensors in 32-bit format. The ID will include two additional quarters.