

Z-Tag with motion sensor

ZOMOFI® - zone monitoring & find

Overview

The increasing use of Active RFID for critical applications such as intrusion detection, traceability of sensitive goods and condition monitoring, is creating competitive advantage in many sectors for end-users who apply this technology in their track and trace infrastructures, object security and people safety.

The products within the ZOMOFI® portfolio locate and track objects and people in real-time. These include managing containers and load carriers in the business process sector, locating equipment and people inside hospitals, tracking and managing railway cars, securing works of art in museums, increasing people safety and ensuring enhanced access control to critical areas. The powerful active RFID technology consists of Tags (transponders), Controllers (readers) and accessories (antennas, API etc.).

Functions and features

The 2.45 GHz Active Tag supports high scale of integration and drives very compact and low-power performance. The unique battery lifetime is achieved without sacrificing the reading and writing range. The Z-Controller manages the configuration of the transmission mode.

The reading and writing range of 160m or more is achieved with the ZOMOFI® Controller. The anti-collision mechanism allows for a thousand Tags to be simultaneously present in the range of one single Controller.



Comprehensive Transponder Portfolio

That kind of transponders have a special purpose built-in motion sensor.

Instantly with a motion detected the Z-Tag Motion transmits the message to the Z-Controller. The message indicates the motion and the duration (1-15s). When the motion status changes back to normal the Z-Tag returns to its "heartbeat" mode. The heartbeat mode indicates the battery status and is leveraged for reliability control of the overall system.

The Tag's service life of 4 to 6 years, depending on usage, is extremely long.

The Z-Edgeware (interface to the SW-application layer) handles the alerts, the zones, the network and the server connectivity.

The Z-Tag Motion Detection and the Z-Tag Motion Plus are designed to detect several motion profiles including:

- shock
- counting vibration hours
- motion in 3D positions
- angles
- free fall and man down

Technical data



Function	Motion Detection Format - Domino S3135-H53x	Motion Plus Format - Wristband S3135-K631	Motion Plus Format - Rugged S3135-K633
Motion Profiles	shock, vibration	shock, vibration, angle, free fall	
x-Sensitivity [mG]	1200, 390 or 190	fine adjustable OTA, 32mG to 2032 mG	
y-Sensitivity [mG]	1200, 390 or 190	fine adjustable OTA, 32mG to 2032 mG	
z-Sensitivity [mG]	120, 39 or 19	fine adjustable OTA, 32mG to 2032 mG	
Temperature	-10°C ~ 65°C	-40°C ~ 70°C	-4 0°C ~ 70°C
Fixation	double side glue	velcro wristband	double side glue; screws
Housing	IP65	IP41	IP67
Size	31 x 90 x 10.5 mm	52 x 34(44) x 12 mm	34 x 70 x 11.5 mm
Frequency Band	2.400 GHz ~ 2.483 GHz worldwide unlicensed ISM band		
Temperature	IEC 60068-2-14 (Na) Operating: see above Storage: -40°C ~ 85°C		
Safety	EN 60950-1 EN 50371		
EMC	EN 301 489-3; EN 301 489-1; EN 61000-6-2		
Radio	EN 300 440-2		

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Applications

Object surveillance

- Individual Object Securing
- Car Parking
- Show Room
- Retail Market
- Warehouse

People Safety

- Rescue Services
- Security Services
- Mining and Tunnels
- Oil and Gas
- Petrochemistry and Pharma

Direct Contact

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Ordering Numbers

Z-Tag Motion detection: S3135-H53x
Z-Tag Motion plus
with wristband format: S3135-K631
with rugged format: S3135-K633

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