

Z-Tag Ruggedized and Z-Tag EX S3135-H550 S3135-H555

ZOMOFI® - zone monitoring & find

Overview

The ZOMOFI® – zone monitoring & find – product family makes zone monitoring and asset tracking in buildings, warehouses, airports, on exterior premises and vehicles possible. The powerful active RFID technology consists of Tags, Controllers and accessories.

Functions and features

The 2.45 GHz Active Tag is used to identify and/or locate assets, containers or individuals. It is built around innovative low-power CMOS integrated circuits. This high scale of integration allows for very compact and low-power performance. The unique battery lifetime is achieved without sacrificing the reading and writing range. The Controller manages the configuration of the transmission mode.

The reading and writing range of up to 160m in free space is achieved with the ZOMOFI® Controller. The anticollision mechanism allows for a thousand Tags to be simultaneously present in the range of one single Controller – “patent pending”.

The unique transmission features make this Tag useful also in difficult environments, where non-friendly Radio Frequency material is present such as metal surroundings, concrete walls and water proximity. The alteration of the transmission remains usually very acceptable given the harsh conditions in which the ZOMOFI® Tag is operating.



Comprehensive Transponder Portfolio

ZOMOFI includes Read-Only Tags, Multifunction Tags, Signal Tags, Motion Detection Tags, Temperature Tags and Customized Tags. The two models described in this data-sheet are specific to their use:

- Tag Ruggedized:
The rugged design and excellent climatic resistance allows the Tag being attached to vehicles, containers, metal assets directly onto the surface.
- Tag EX:
The protection for ATEX EX / IEC Ex of this Transponder allows to carry the Tag on people or assets which enter explosive areas. The Tag is certified to its extremes for excellent performance and safety.

Both Tags have multifunction features which allow for read & write operations to the user data memory of 112 bytes, to mute and wake-up of the Tags, and to modificate the signalization rate. The mute function is particularly well suited to air transport. The Tag's service life of 6 to 10 years, depending on usage, is extremely long.

Applications

Asset Tracking & Supply Chain

- Logistics
- Defense
- Airports / Ports
- Transport (Train/Trucks)
- Automotive
- Hospitals

People Safety

- Fire Brigades
- Hospital / Care Homes
- Mining and Milling
- Oil and Gas

Further more applications

- Access Control (long range)
- Intrusion Detection for Security


Ordering Numbers

| | |
|------------------|------------|
| Z-Tag Ruggedized | S3135-H550 |
| Z-Tag EX | S3135-H555 |

Direct Contact

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Technical data

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| Dimensions (L x W x H) | |
| Ruggedized | 95 x 60 x 18.5 mm |
| EX | 95 x 60 x 18.5 mm |
| Frequency Band | 2.400 GHz ~ 2.483 GHz worldwide unlicensed ISM band |
| Temperature | IEC 60068-2-14 (Na) Operating -40°C ~ 80°C(Z-Tag Ruggedized) Operating -40°C ~ 50°C(Z-Tag EX) Storage -40°C ~ 70°C (both) |
| Vibration & Shock | EN 61373 Cat. 1, Class B; swinging at 0.8 g; shock at 5 g |
| Safety | EN 60950-1 EN 50371 |
| EMC | EN 301 489-3 V1.4.1 EN 301 489-17 V2.1.1 EN 55022 + A1 EN 55024 + A1 + A2 EN 61000-6-2 |
| Radio | EN 300 440-2 V1.1.2 EN 300 328 V1.6.1 |
| ATEX EX |  II 1GD |
| IEC Ex | Ex ia IIC T4 Ga Ex ia IIIC T99° Da |
| Housing | IP67 |