

Z-Controller Gate Access Z-Controller Contact Relay

Controller/Reader for active RFID
S3135-H110

ZOMOFI® - zone monitoring & find



Overview

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

Functions and features

The 2.45 GHz Active RFID Controller is used in systems that integrate the Active Tags family ZOMOFI®. Several models of Z-Controllers are available – e.g. LAN Controllers, WLAN Controllers, Outdoor Controllers, ATEX EX Controllers, Serial Controllers. The portfolio is complemented with better tailored and optimized models.

The **Controller Gate Access** and **Contact Relay** are leveraged for several stand-alone setups in different industries. The functionality includes:

- opening a gate when authorized people are in the range of the gate
- opening a gate for let passing vehicles
- long range comfort for the access scenarios
- keeping gates closed when un-authorized people want to pass
- alarming when un-authorized people are nearby certain spots
- alarming when people are nearby and therefore in danger

Any of the ZOMOFI® Transponders can be used to work in conjunction with the Z-Controller Gate Access / Contact Relay.





Easy Installation and Stand-Alone Operation

The Controller has simple, but practical electrical connectors for power, gate logic and antenna as shown in pictures above.

The dip-switch concept allows the setting of the size of the monitored zone and the setting for different modes. It makes it very efficient for operating without PC and without administrative instruments whatsoever.

How does it work?

The people or vehicles carry a Z-Tag. The Z-Tag is registered with the Controller. Based on the registration and the application scenario the Controller is switching the gate, a hooter or an optical warning instrument.

The registration of the up to 100 Z-Tag per Controller is done with the secure protocols of ZOMOFI. Each Z-Tag can be registered for one or many Controllers as long as they belong to the same protected circle for that particular customer.

Applications

Asset Tracking	Logistics	Defense	Airports / Ports	Transport / Railway
Automotive	Hospitals	People Safety	Hospital	Care Homes
Oil & Gas	Mining and Milling	Access Control	Intrusion Detection	Cold Chain

Technical data

Dimensions (W x H x D) 126 x 104 (82.5) x 28 mm

Power 6-12 VDC

Frequency Band 2.400 GHz ~ 2.483 GHz worldwide unlicensed ISM band

Temperature Operating -10°C ~ 60°C Storage -25°C ~ 65°C

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

Technical Date of Contact Relay (Absolute maximum ratings at ambient temperature: 25°C):

Load voltage (peak AC)	VL	60 V	
Continuous load current (peak AC)	IL	1.1 A	
Peak load current	I _{peak}	3.0 A	100 ms (1 shot), VL = DC
on resistance	R _{on}	0.34 Ω typ	Within 1 s on time
		0.7 Ω max	Within 1 s on time
Power dissipation	P _{out}	500 mW	