ELID

Identification Technologies

ER929
Shake Thru'
mobile access
Multi-Technology Reader from ELID

ER929 Multi–Technology Reader

ER929 is a multi-technology reader, supporting parallel Bluetooth LE 4.0, EM proximity card and MIFARE contactless smart card. The key innovation of ER929 is its support for smartphones and long range Active Tags in access control applications. The reader is also weather-proof and therefore suitable for any environment, both indoors and out. Possible applications of the ER929 include access control tracking and car parking management systems.

FEATURES

Convenient
The ER929's unique features are perfectly suited for car park barrier access applications thanks to the extended reading range of up to 5 meters for both smartphones or long range Active Tags. In addition, ER929's reading capabilities are not affected by vehicle tinting films. This ultimately benefits the user, who will save time by eliminating the need to wind down their windows, particularly during wet weather.

Powerful
The ER929 is both powerful and flexible featuring 3 reading technologies and support for 4 types of reading devices: Smartphone, long range Active Tag, MIFARE smart card and EM proximity card.

Compatible
The ER929 integrates seamlessly with all ELID hardware and also 3rd party controllers with standard WIEGAND outputs.

MULTI-ACCESS MODE

Smartphone Access

As smartphones continue to become globally ubiquitous computing devices, they are also perfectly suited as access keys. The smartphone access feature can be used to conveniently interact with a variety of access control hardware, including barrier gates, turnstiles, elevator and doors.

Long Range Active Tag

For applications where the use of a smartphone is unsuitable, ER929 offers an additional option for extended range access control using ELID's long range active tag which works without the need for a wireless network.
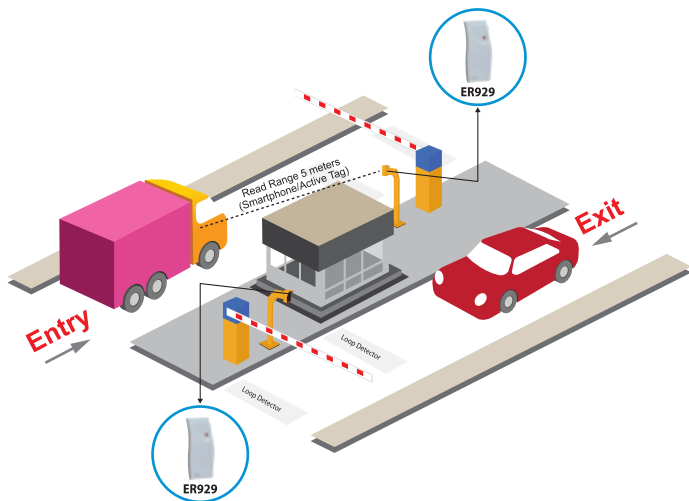
MIFARE Smart Card

The ER929 features a built-in MIFARE reading module which is especially suitable for a typical scenario where a building needs to upgrade its access card system from EM to MIFARE. During the process of upgrading, existing EM cards will continue to work in conjunction with the newly issued MIFARE cards. This helps reduce total cost of ownership during the transition period.

EM Proximity Card

The ER929 has built-in support for the popular EM contactless card format and features ELID's reliable and robust EM proximity reading module.

INSTALLATION EXAMPLE

PERFORMANCE CHARACTERISTICS

Frequency	125kHz, 13.56MHz, 2.4GHz
Reading Range	Read performance varies based on device, configuration and environment. Typical reading ranges are as follows:- Smartphone: 5 meters Long Range Active tag: 5 meters Mifare Smart Card: 2cm EM Card: 3cm
Antenna Type	Vertically Polarized
Communication Interface	Wiegand, Free Wiegand
Data Format	Configurable 26-bit (EM & Mifare Wiegand); 40-bit (EM Free Wiegand); (32-bit Mifare Free Wiegand)
LED Status Indication	Yes

PHYSICAL CHARACTERISTICS

Dimensions	110(H) x 44(W) x 35(D) mm
Packaging	130(H) x 65(W) x 65(D) mm
Weight	200g

ENVIRONMENT

Operation Temperature	0ºC ~ +70ºC
Storage Temperature	-40ºC ~ +85ºC
Humidity	20%~90% RH, Non condensation
Weather-proof	IP-54
Supply Voltage	5V-14V
Current Consumption	220mA

ORDERING INFORMATION

ER-0929-001	ER929 Multi Technology Reader, Beige
EC-0929-001	Smartphone licence
ER-0929-T01	EC29 Long Range Active Tag
EC-0008-HL1	MIFARE Contactless Smart Card
EC-0024-E02	EM Proximity Card, Thin Card

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