

How does it work?

Virtual Credentials are sent from a mobile device or wearable to the RELAY device using Bluetooth Low Energy (802.15.4). The RELAY decrypts the secure virtual credential and sends it to the control panel using industry standard Wiegand or RS485.

The physical access control system authorizes the request for access and triggers an LED and audible response on the host reader.

Installation

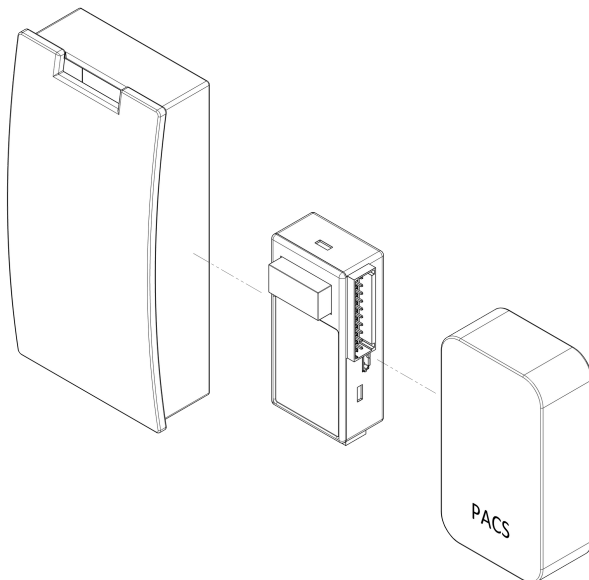
The SABRE RELAY has two configuration options.

A) By connecting one side of the SABRE RELAY directly to the control panel and the other side of the RELAY device directly to the reader, the SABRE RELAY enables mobile devices and wearables to be used as a replacement or in-conjunction with existing card technologies.

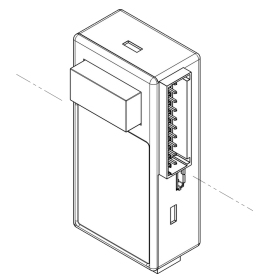
B) The SABRE RELAY can also operate as a standalone device for the support of mobile devices and wearables. This configuration option is ideal for environments where no existing cabling or reader infrastructure exists.

A full wiring diagram can be found in the Install Guide which includes dimensions, antenna instructions, wiring instructions and power-up steps.

A)



B)



Step into the future with Safetrust Mobile Access.



Tech Specs

Description	The SABRE RELAY provides mobility for parking garages, remote buildings and single door offices.
Part Number	8820-000
Hardware	Bluetooth Low Energy 2.400 GHz - 2.4835 GHz
Mobile Operating Systems	Apple iOS 9.0 or later and Android 4.4 and up on devices with the Safetrust Wallet
Compatibilities	Most popular 125kHz proximity formats from HID@**, Indala@**, AWID@, GE Casi@, and Honeywell@, MIFARE Classic and MIFARE DESFire
Output	Form C relay, Wiegand, RS-485, OSDP v1/v2, OSDP v2 Secure Channel, TTL 5V
Ports	USB, Optical Relay 400mA, External 48V 5A relay
Expansion Ports	Reserved for future communication devices
Bluetooth Range	1 ft to 50 ft (.31 to 15 meters)
Communication	802.11b/g/n 2.4 GHz, 802.1x Authentication, TCP/IP
RF Transmit Frequency	2.4 GHz - 2.48 GHz
IoT Protocol	MQTT (ISO/IEC PRF 20922)
Power Requirements	12 V DC
Power Consumption	Wi-Fi 2 - 50 mA, BLE 2 - 15 mA
Dimensions	65mm x 30mm x 12mm
Encryption	AES 256, x.509
Certifications	FCC, CE, RCM, IC
Warranty	2 Years (limited warranty, review warranty for complete details)

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