SABRE RELAY

The SABRE RELAY is a combination Bluetooth Low Energy (BLE) reader with access controller management capabilities. By presenting a virtual credential within the SABRE activation range, authorized users can trigger the onboard relay from their mobile device. The SABRE RELAY provides mobility for parking garages, remote buildings and single door offices, all within seconds from the Safetrust Wallet application.

Key Features

Combination Reader Controller

Complete controller functionality, perfect for parking garages, single door businesses, and remote buildings.

Multiple I/O Interfaces

Includes 24v / 12v relay, 5v input / output trigger, internal/external antennas, Wiegand, RS-485, and optional Wi-Fi module.

OTA (Over-the-air configuration)

Firmware updates and configuration management can be made over-the-air through the Safetrust Wallet application or optional Wi-Fi module.

Online/Offline Operation

The Credential Manager provides regular data exchanges to the Safetrust Wallet application and the SABRE RELAY, eliminating the need for constant online connectivity for authentication.

Configurable Extendable Range

Activation range can be configured based on environmental requirements. Where additional range is required, the module supports the use of external antennas for both the BLE and optional Wi-Fi interfaces.

How does it work?

The SABRE RELAY is wired to an existing locking hardware and registered to an Identity System within a customer account. Users are assigned virtual credentials for the specific Identity System. When a mobile device with the corresponding credential comes into range of the SABRE, the encrypted credential is sent via BLE. The SABRE RELAY validates the mobile credential, triggers the relay module, and opens the gate or door.

Installation

Installation of the SABRE RELAY involves powering the relay module with 12VDC and selecting the relay output. Control lines on the SABRE RELAY are then physically wired to the locking hardware. When the SABRE RELAY relay is in place, it is assigned to an account and individually registered to an Identity System within the Safetrust Credential Manager. The registration process for the SABRE RELAY is facilitated using the admin installer tab within the Safetrust Wallet application.

Pigtail Color	Name (full)
Black	Ground
White	Data1
Green	Data0
Red/Yellow	5V Output
White/Red	INPUT2 (Wiegand input)
White/Green	INPUT1 (Wiegand output)
Brown	Trigger Output5v
Red	12V Input Power

White 8 pin

Pigtail Color	Name (full)
Red/Black	Ground
Grey	RS485 Line A
Pink	RS485 Line B
White/Yellow	Future Use
White/Black	Future Use
White/Blue	Wiegand Out Red LED
Tan	Wiegand Out Green LED
Red/Green	12V Output

Black 8 pin

Pigtail Color	Name (full)
Blue	Normally Open
Orange	Common
Yellow	Normally Closed
Future Use	Spare
Future Use	Spare
Purple	12V Input Power

Black 6 pin

Specifications

- Description: The SABRE RELAY is designed for use with gates, overhead doors and other entry control devices
- Mobile Operating Systems: Apple iOS 9.0 or later, Android 4.1 or later
- Hardware: BLE 2.400 GHz - 2.4835 GHz
- Compatibilities: Most popular 125kHz proximity formats from HID®, Indala®, AWID®, GE Casi®, and Honeywell®, MIFARE Classic* and MIFARE DESFire* (*available Q4 2018).
- Output: Form C relay, Wiegand (in / out)
- Power Source: 12 VDC
- Bluetooth Range: 1 to 100 ft (.30 to 30 m)
- Encryption: AES 256, x.509
- Case Dimensions: 5.48" x 2.65" x 1.58" (139.3 x 67.3 x 40.1mm)
- Antenna Length: 5dB - 3.14" (80mm), 15dB - 7.87" (200mm)
- Certifications: FCC, CE, RCM, IC
- Warranty: 2 Years (limited warranty, review warranty for complete details)

*Technical data subject to change without notice. To order, contact sales@safetrust.com or visit www.safetrust.com/shop.