

XPass 2

설치 가이드

버전 1.00
한국어

KO 101.00.XP2-GDPB V1.00A

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안전을 위한 주의사항

제품을 올바르게 사용하여 위험이나 재산상의 피해를 미리 막기 위한 내용입니다. 반드시 지켜주시기 바랍니다.



경고

지시사항을 위반하면 심각한 상해나 사망에 이를 수 있습니다.

설치 관련

직사 광선, 습기, 먼지나 그을음이 많은 곳에는 설치하지 마십시오.

- 화재 또는 감전의 원인이 됩니다.

전열기 등으로 인해 열이 발생하는 곳에는 설치하지 마십시오.

- 과열로 인한 화재 또는 감전의 원인이 됩니다.

물기가 없는 장소에 설치하십시오.

- 습기로 인한 제품 손상 또는 감전의 원인이 됩니다.

전자파 장애가 없는 곳에 설치하십시오.

- 제품 손상 또는 감전의 원인이 됩니다.

사용자가 임의로 제품을 설치하거나 수리하지 마십시오.

- 화재, 감전, 부상의 원인이 됩니다.
- 사용자의 임의 설치나 수리로 인해 제품이 손상된 경우에는 무상 서비스를 받을 수 없습니다.

사용 관련

제품 내부에 물, 음료수, 약품 등의 액체가 들어가지 않도록 주의하십시오.

- 감전, 화재, 제품 손상의 원인이 됩니다.



주의

지시사항을 위반하면 경미한 상해나 제품 손상이 발생할 수 있습니다.

설치 관련

전원 케이블 등을 통행 장소에 방치하지 마십시오.

- 제품 파손 또는 신체 상해의 원인이 됩니다.

자석, TV, (특히 CRT) 모니터, 스피커 등 자성이 강한 물체 주변에 설치하지 마십시오.

- 제품 고장의 원인이 됩니다.

여러 대의 장치를 설치할 때 최소 거리를 유지하여 설치하십시오.

- 그렇지 않으면 다른 장치의 RF 성능에 영향을 주어 장치가 오작동할 수 있습니다.

사용 관련

제품을 떨어뜨리거나 충격을 주지 마십시오.

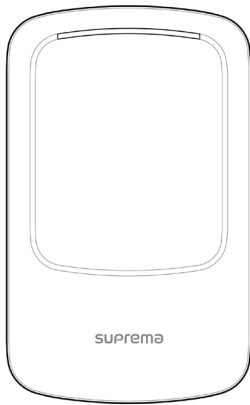
- 제품 고장의 원인이 됩니다.

제품 청소 시 물, 벤젠, 알코올 등이 아닌 부드러운 마른 천으로 닦아 주십시오.

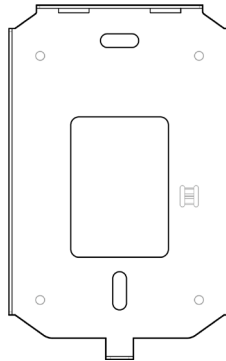
- 제품 고장의 원인이 됩니다.

시작하기

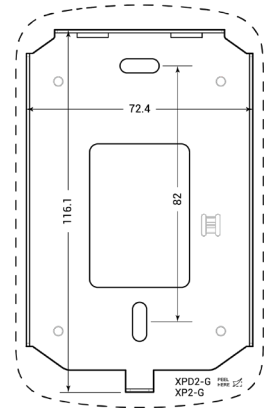
구성품



XPass 2



벽걸이용 브래킷



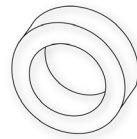
드릴링 템플릿



벽면 고정용 나사 x 2



브래킷 고정용 나사
(별 모양)



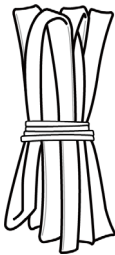
페라이트 코어



다이오드



120 Ω 저항



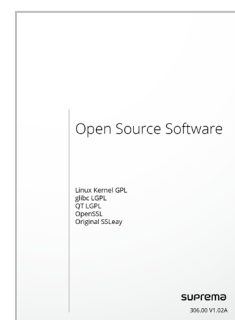
수축 튜브



PVC 앵커 x 2



퀵 가이드



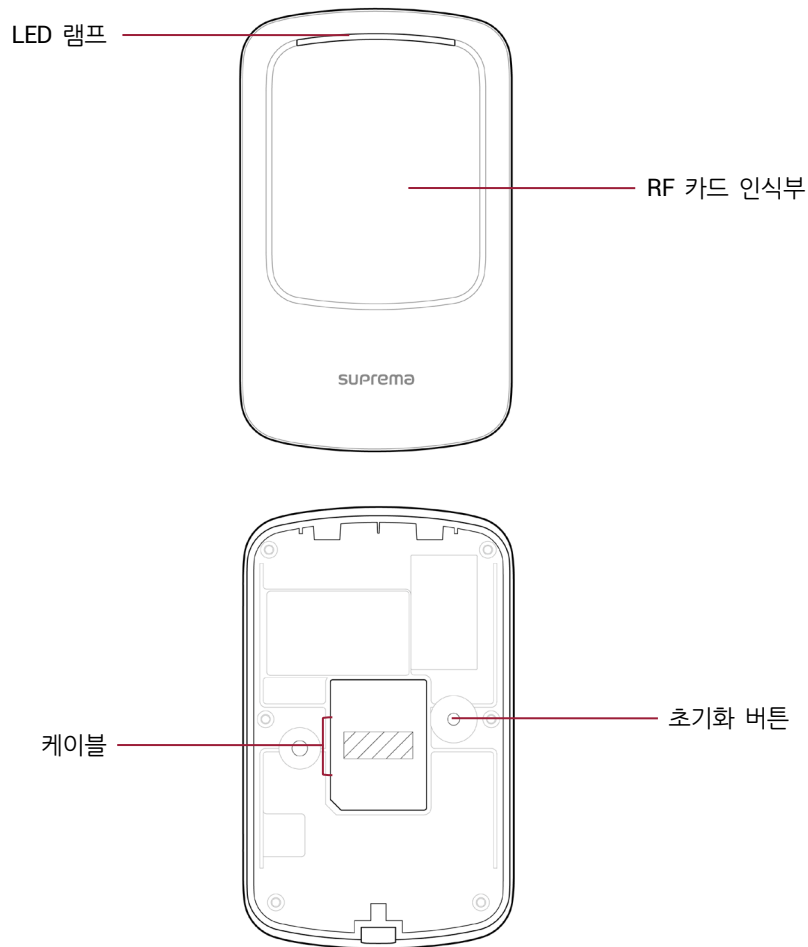
오픈소스라이선스 가이드

알아두기

- 구성품은 설치 환경에 따라 달라질 수 있습니다.

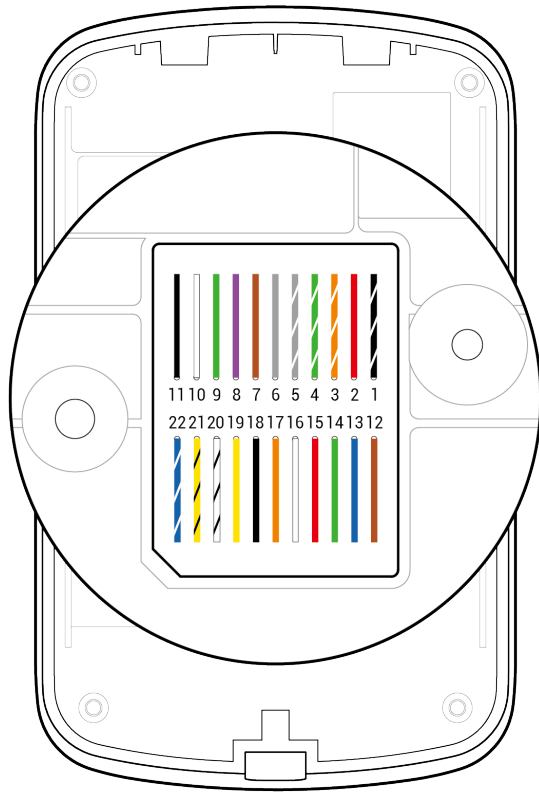
명칭 및 기능

각 부분의 명칭 및 기능



명칭	기능 설명
LED 램프	LED 램프 색상으로 제품 작동 상태가 표시됩니다.
RF 카드 인식부	출입을 위해 RF 카드를 인식시키는 부분입니다.
초기화 버튼	제품을 초기화할 때 사용합니다.
케이블	• 전원 케이블 • RS-485 케이블 • 이더넷 케이블 • Wiegand 입출력 케이블 • TTL 입력 케이블 • 릴레이 케이블

케이블 및 커넥터

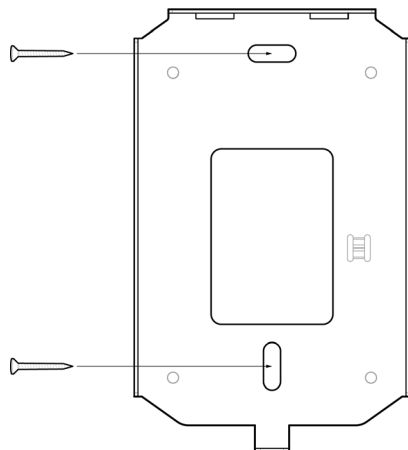


핀	명칭	색상
1	PWR GND	검은색 (흰띠)
2	PWR +VDC	빨간색
3	RLY NC	주황색 (흰띠)
4	RLY COM	초록색 (흰띠)
5	RLY NO	회색 (흰띠)
6	TTL GND	회색
7	TTL IN1	갈색
8	TTL IN0	보라색
9	WG D0	초록색
10	WG D1	흰색
11	WG GND	검은색
12	ENET VB2	갈색
13	ENET VB2	파란색
14	ENET VB1	초록색
15	ENET VB1	빨간색
16	ENET TXP	흰색
17	ENET TXN	주황색
18	ENET RXP	검은색
19	ENET RXN	노란색
20	485 GND	흰색 (검은띠)
21	485 TRXN	노란색 (검은띠)
22	485 TRXP	파란색 (흰띠)

설치

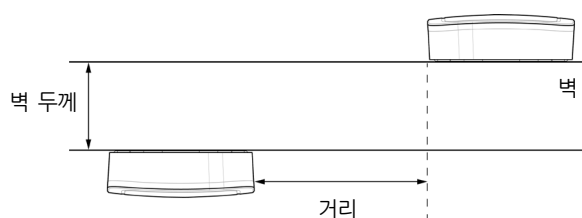
브래킷 및 제품 고정

- 1 제공된 드릴링 템플릿을 이용하여 브래킷을 장착할 위치를 정하십시오. XPass 2를 장착할 위치에 고정용 나사를 이용하여 브래킷을 단단히 고정하십시오.

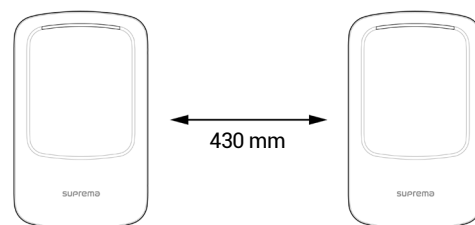


알아두기

- XPass 2를 콘크리트 벽에 설치할 경우 드릴로 구멍을 뚫어 PVC 앵커를 끼운 뒤 고정용 나사로 고정하십시오.
- RF 신호 간섭을 피하기 위해 최소 이격 거리를 확인하여 설치하십시오.

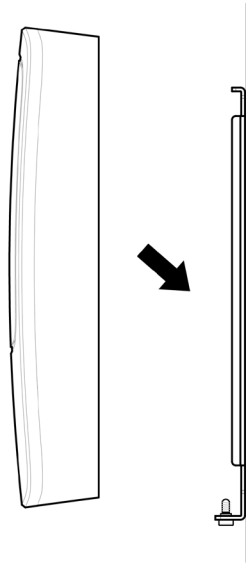


벽

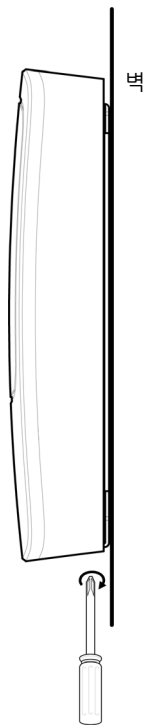


벽 두께	거리
100 mm	400 mm
120 mm	380 mm
150 mm	380 mm

2 고정된 브래킷 위에 XPass 2를 장착하십시오.



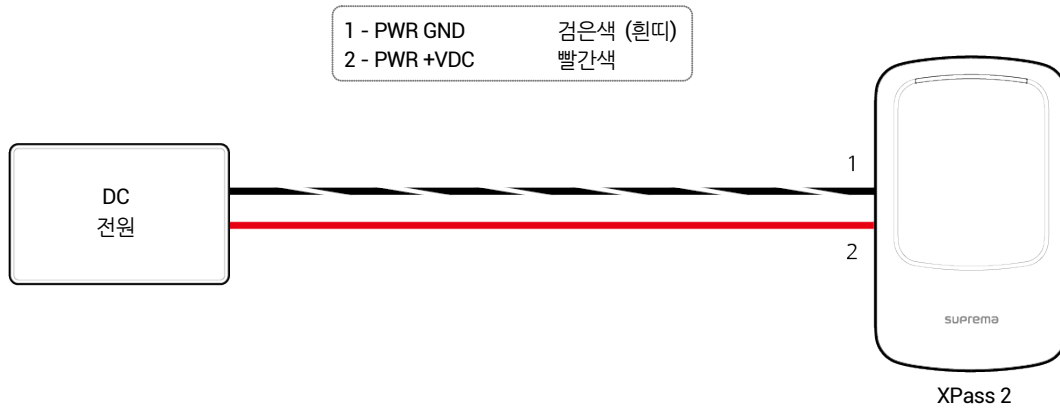
3 제품 고정용 나사를 돌려 XPass 2와 브래킷을 조립하십시오.



알아두기

- 브래킷과 제품을 조립할 때 향상된 보안을 위해 제품 고정용 나사 대신 동봉된 브래킷 고정용 나사(별 모양)를 이용할 수 있습니다.

전원 연결



알아두기

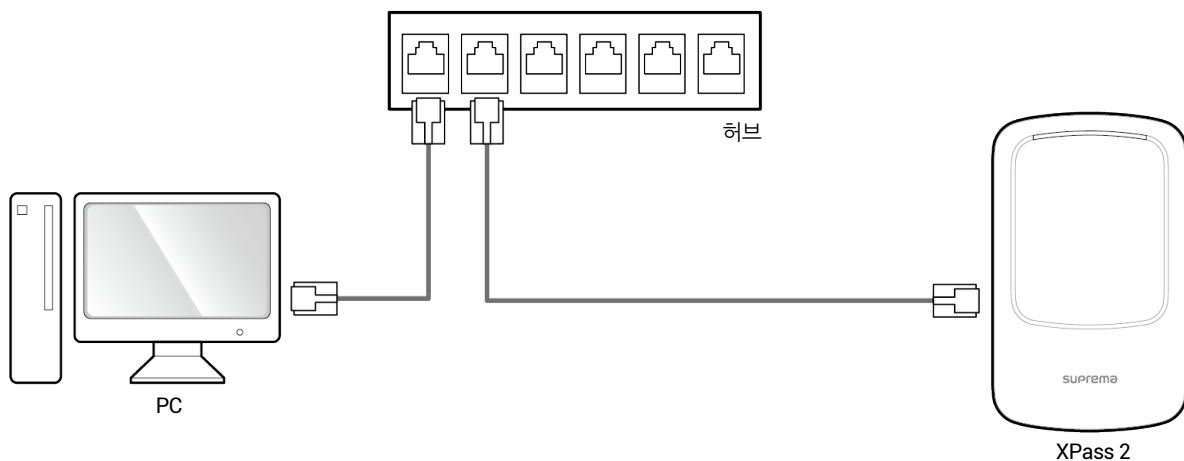
- 전원 어댑터는 DC 12V(± 10%), 최소 1,000mA 이상 또는 DC 24V(± 10%), 최소 500mA 이상으로 IEC/EN 60950-1 승인을 받은 제품을 사용하십시오. 전원 어댑터에 다른 기기를 연결하여 사용하려면 단말기의 소모 전력과 다른 기기에 필요한 소모 전력을 합한 전류 용량 이상의 어댑터를 사용해야 합니다.
- Secure I/O 2, 전기정(전기식 잠금장치), 제품은 반드시 개별 전원을 사용하십시오. 전원을 함께 연결하여 사용하면 장치가 오작동할 수 있습니다.

네트워크 연결

TCP/IP

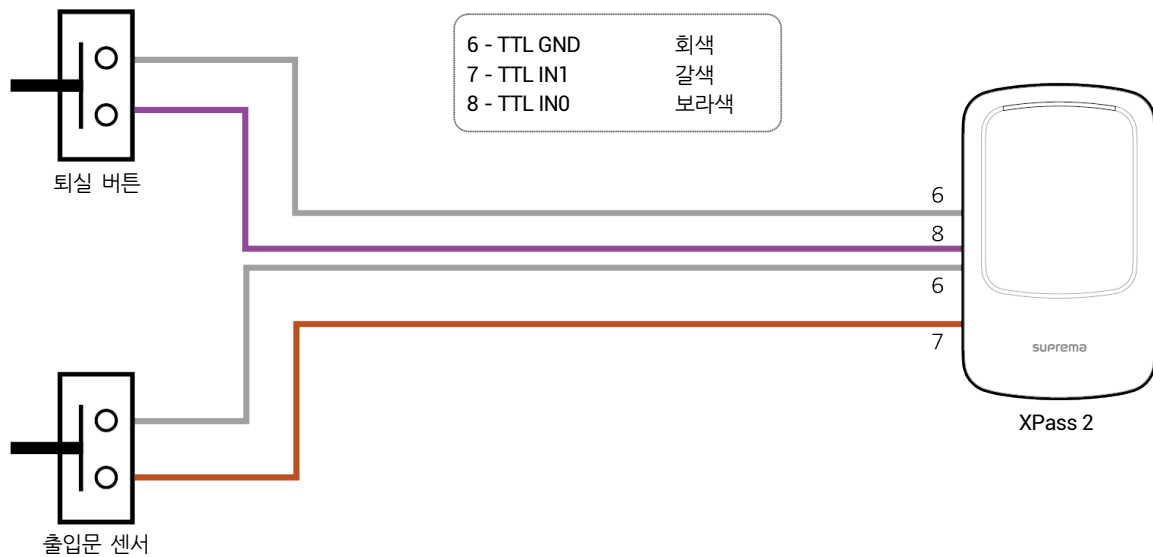
LAN 연결(허브와 연결)

일반 타입의 CAT-5e 케이블을 사용하여 허브와 연결할 수 있습니다.



LAN 연결(PC와 직접 연결)

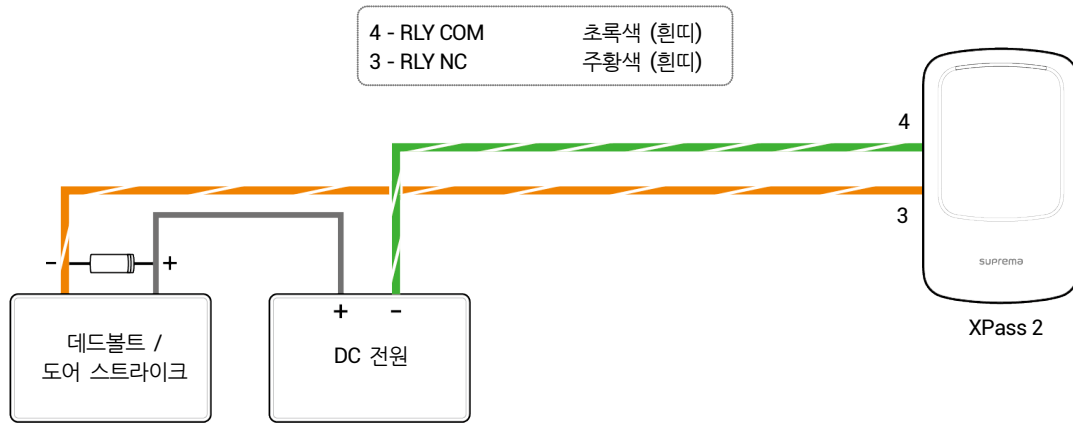
XPass 2는 자동 MDI/MDIX 기능을 가지고 있으므로 크로스 케이블이 아닌 일반 타입의 CAT-5e 케이블로 PC와 직접 연결할 수 있습니다.

**TTL 입력 연결**

릴레이 연결

Fail Safe Lock

Fail Safe Lock을 사용하려면 아래 그림과 같이 N/C 릴레이를 연결하십시오. Fail Safe Lock은 평상시 릴레이 회로에 전류가 흐르며, 릴레이가 동작하여 전류를 일시적으로 차단하면 출입문이 열립니다. 정전이 되거나 외부 요인으로 장치의 전원이 끊길 경우 출입문이 열립니다.

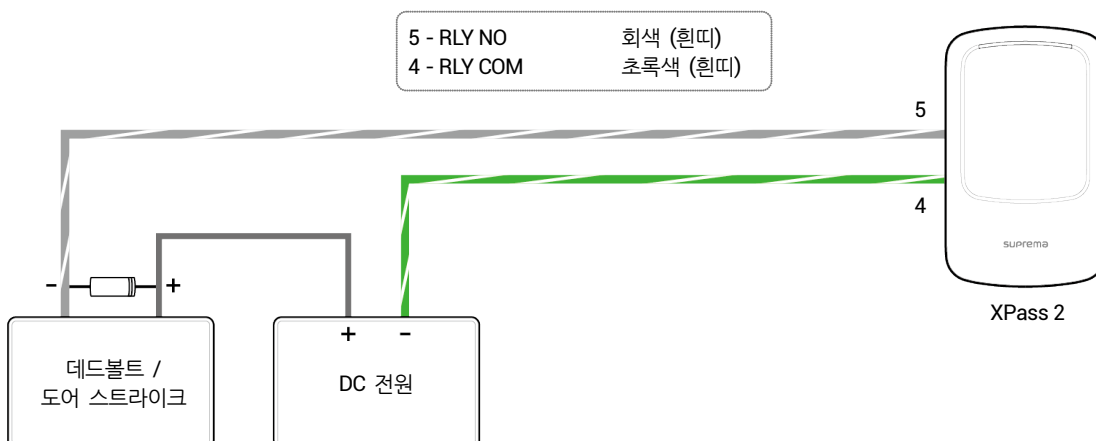


알아두기

- 출입문 잠금 장치가 작동할 때 발생하는 역전류로부터 릴레이를 보호하기 위해 그림과 같이 출입문 잠금 장치 배선 양쪽에 다이오드를 설치하십시오.
- 다이오드의 설치 방향에 주의하십시오. 다이오드는 출입문 잠금 장치와 가깝게 설치하십시오.
- XPass 2와 출입문 잠금 장치는 별도의 전원을 사용하십시오.

Fail Secure Lock

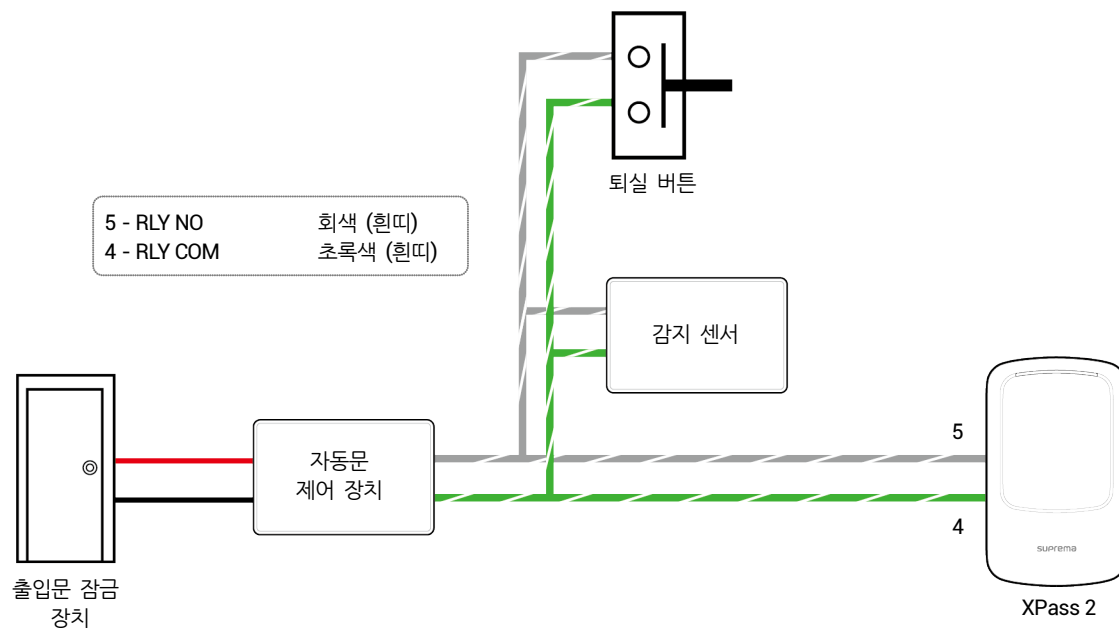
Fail Secure Lock을 사용하려면 아래 그림과 같이 N/O 릴레이를 연결하십시오. Fail Secure Lock은 평상시 릴레이 회로에 전류가 흐르지 않으며, 릴레이가 동작하여 전류가 흐르면 출입문이 열립니다. 정전이 되거나 외부 요인으로 장치의 전원이 끊길 경우 출입문이 잠깁니다.



알아두기

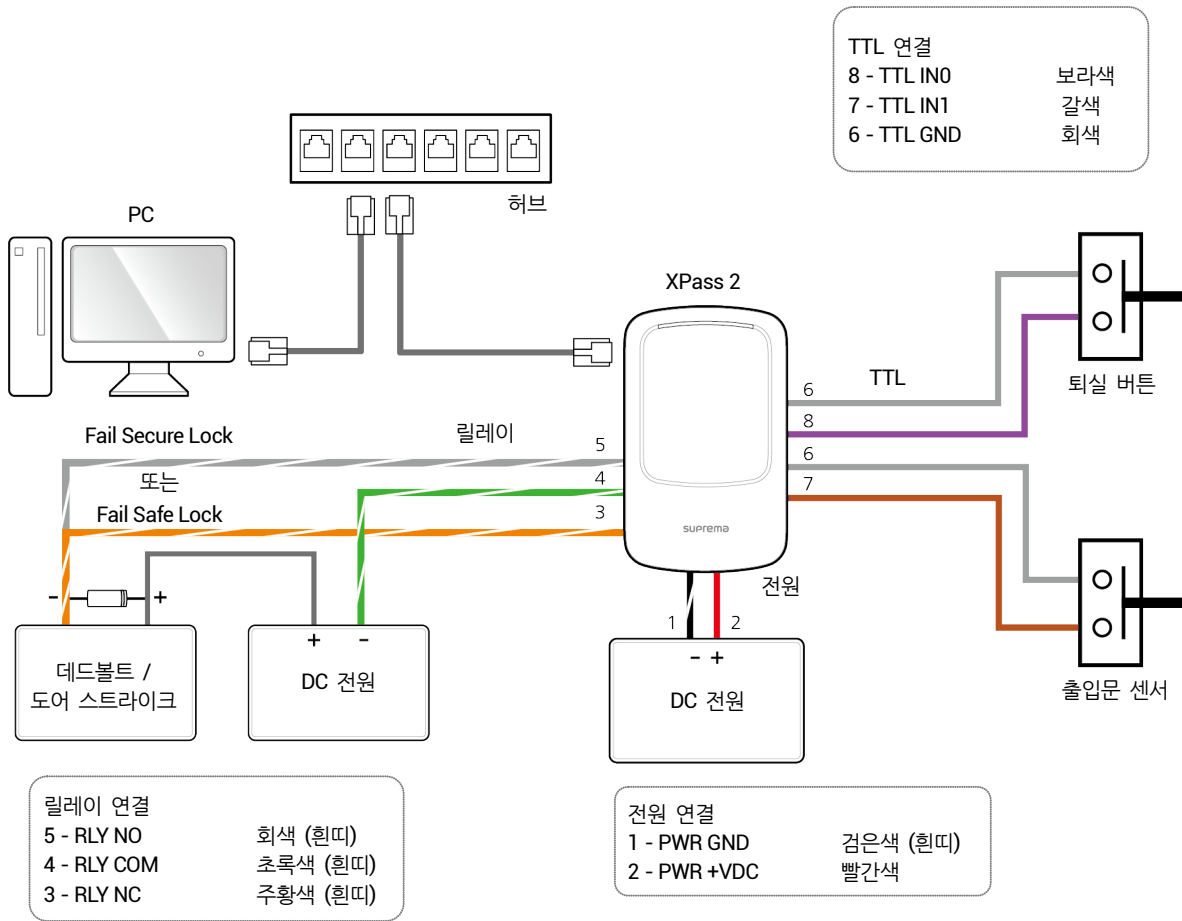
- 출입문 잠금 장치가 작동할 때 발생하는 역전류로부터 릴레이를 보호하기 위해 그림과 같이 출입문 잠금 장치 배선 양쪽에 다이오드를 설치하십시오.
- 다이오드의 설치 방향에 주의하십시오. 다이오드는 출입문 잠금 장치와 가깝게 설치하십시오.
- XPass 2와 출입문 잠금 장치는 별도의 전원을 사용하십시오.

자동문 연결



독립형 연결

별도의 I/O 장치를 연결하지 않고 XPass 2를 직접 출입문 잠금 장치, 출입문 스위치, 출입문 센서 등에 연결할 수 있습니다.



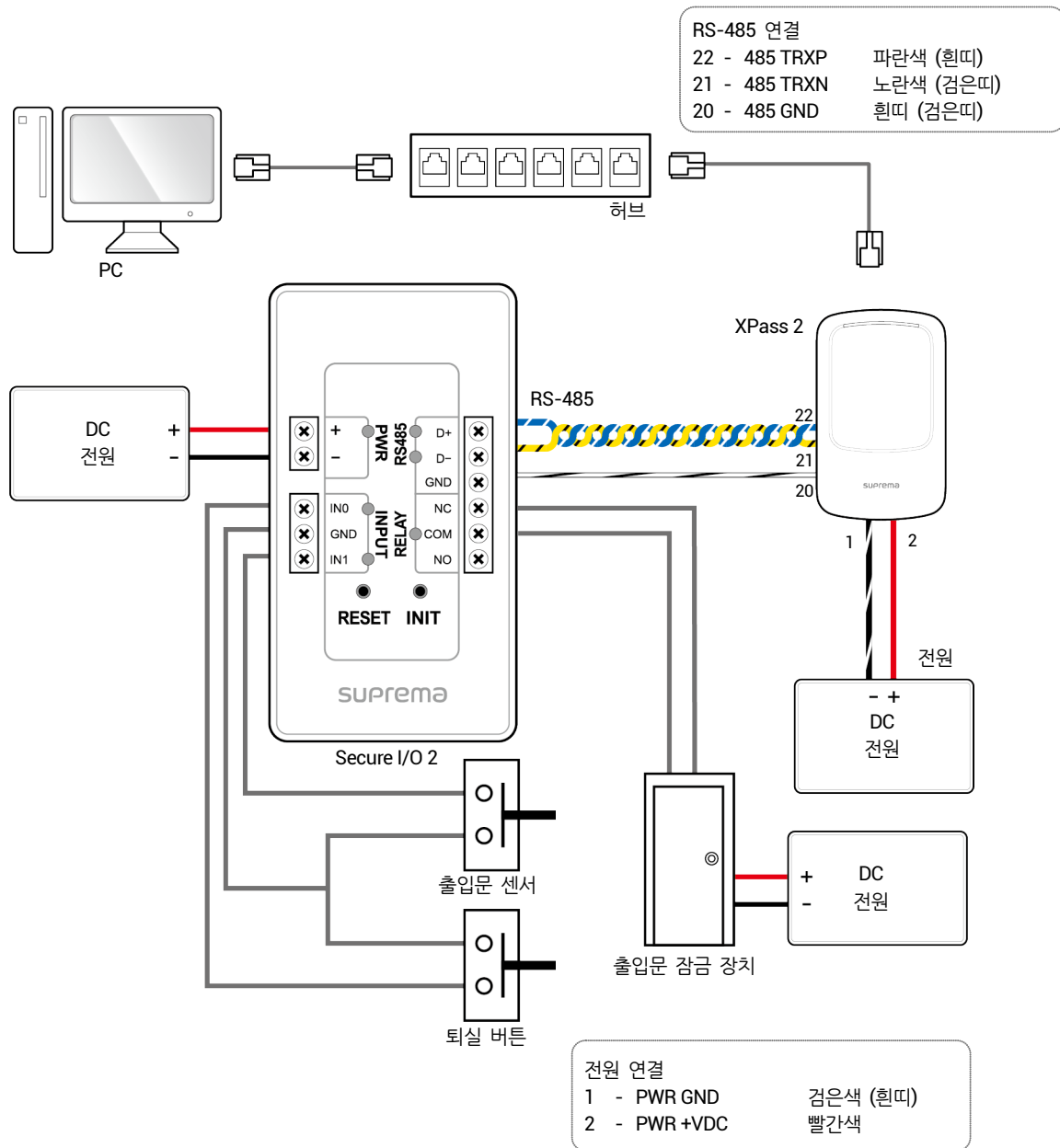
알아두기

- RS-485 케이블로 슬레이브 장치를 연결하여 XPass 2를 다중 출입문 제어 장치로 사용할 수 있습니다. 슬레이브 장치는 더미 리더로 사용되며 인증은 마스터 장치에서 수행합니다.
- XPass 2를 마스터 장치로 사용할 경우 슬레이브 장치에서 카드 인증만 사용할 수 있습니다.
- 연결할 수 있는 최대 슬레이브 장치 수는 사용자 수에 따라 달라질 수 있습니다.
- 더 자세한 내용은 슈프리마 기술 지원팀(support.supremainc.com)에 문의하십시오.

Secure I/O 2 연결

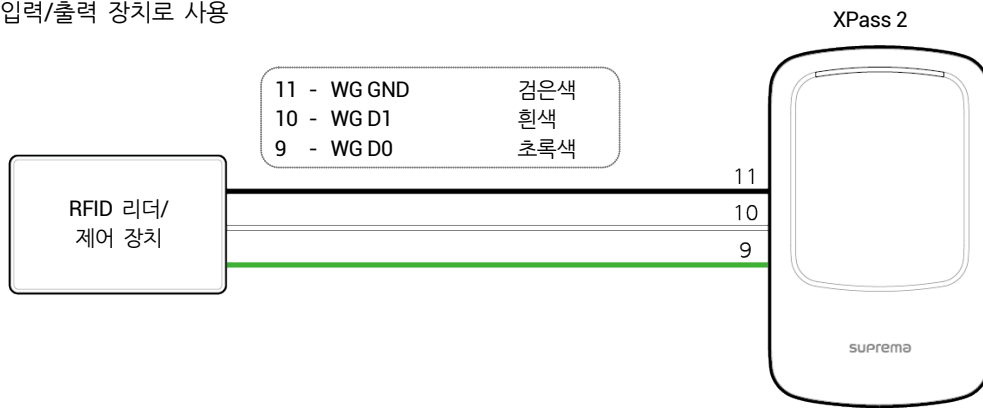
XPass 2에 I/O 장치인 Secure I/O 2를 RS-485로 연결할 수 있습니다. XPass 2와 Secure I/O 2의 연결이 끊기거나 외부 요인에 의해 XPass 2의 전원이 차단되더라도 보안을 유지할 수 있습니다.

- RS-485 케이블은 AWG24, 꼬임선(Twisted Pair), 길이 1.2 km 이하로 사용하십시오.
- RS-485 데이터 체인으로 연결할 경우 종단 저항(120Ω)을 데이터 체인 연결의 양 끝에 연결하십시오. 중간 선로에 연결할 경우 신호 레벨이 작아져 통신 성능이 떨어지므로 반드시 데이터 체인 연결의 양 끝에 연결하십시오.



Wiegand 연결

Wiegand 입력/출력 장치로 사용



네트워크 설정 초기화

- 1 전원을 켜십시오.
- 2 장치가 자동으로 재부팅될 때까지 초기화 버튼을 누르십시오.
- 3 초기화된 네트워크 정보를 이용해 장치를 연결하십시오.
 - TCP/IP 주소: DHCP 주소 할당 (DHCP 주소 할당을 실패하면 169.254.x.x로 설정됩니다.)
 - 서버 모드: 사용 해제
 - RS-485: 기본값 115200 bps
- 4 TCP/IP나 RS-485 정보를 변경하십시오.
- 5 전원을 끄고 켜 뒤 네트워크 정보가 올바르게 설정되었는지 확인하십시오.

공장 초기화

장치에 저장된 모든 정보와 루트 인증서를 삭제하고 설정을 초기화합니다.

- 1 전원을 켜십시오.
- 2 초기화 버튼을 빠르게 세 번 누르십시오.
- 3 장치의 LED가 노란색으로 깜박거릴 때 초기화 버튼을 한 번 더 누르십시오.

알아두기

- 장치에 저장된 루트 인증서가 존재하지 않을 경우 공장 초기화를 진행할 수 없습니다.

제품 사양

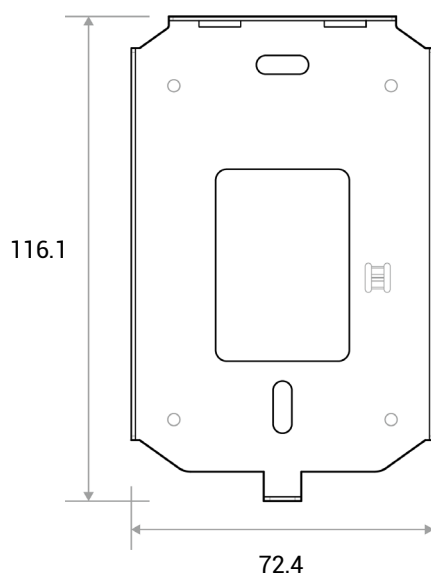
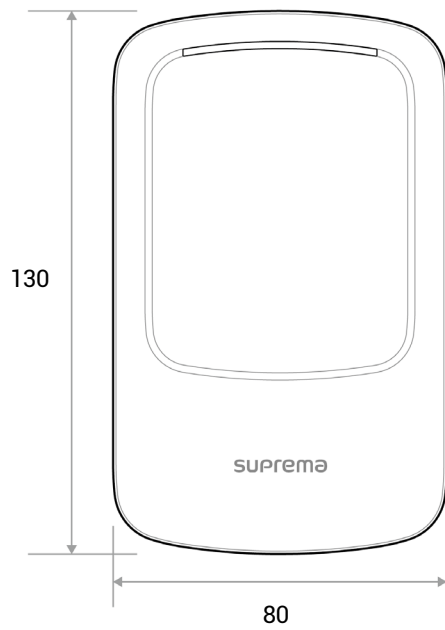
구분	항목	규격
		XP2-GDPB
크리덴셜	LF 카드	EM
	HF 카드	MIFARE, MIFARE Plus, DESFire/EV1, FeliCa
	NFC 카드	지원
	BLE 카드	지원
	RF 인식 거리*	MIFARE/DESFire/EM : 50 mm, FeliCa: 30 mm
일반	CPU	1 GHz
	메모리	4 GB Flash + 64 MB RAM
	LED	다중 색상
	소리	멀티톤 버저
	동작 온도	-35 °C - 65 °C
	보관 온도	-40 °C - 70 °C
	동작 습도	0% - 95 %, 비응축
	보관 습도	0% - 95 %, 비응축
	치수 (W x H x D)	80 mm x 130 mm x 25 mm
	무게	장치: 220 g 브래킷: 52 g (와셔 및 볼트 포함)
	IP 등급	IP65, IP67
	IK 등급	IK08
	인증	CE, FCC, KC, RoHS, REACH, WEEE, SIG
저장 용량	최대 사용자 수	200,000
	최대 카드 수	200,000
	최대 로그 수	1,000,000
인터페이스	Wi-Fi	미지원
	이더넷	지원(10/100 Mbps, auto MDI/MDI-X)
	RS-485	1채널 마스터/슬레이브 (선택 가능)
	Wiegand	1채널 입력/출력 (선택 가능)
	TTL 입력	2채널 입력
	릴레이	1개
	PoE	지원 (IEEE 802.3af 호환)
	탐퍼	지원
전기 규격	전원	전압: 12 VDC, 전류: 최대 500 mA 또는 전압: 24 VDC, 전류: 최대 250 mA * 12 VDC, 1 A 또는 24 VDC, 0.5 A 사양의 전원을 사용하십시오.
	스위치 입력 V_{IH}	최소 3 V, 최대 5 V
	스위치 입력 V_{IL}	최대 1 V
	스위치 풀업 저항	4.7 k Ω (입력 단자는 4.7 k Ω 으로 풀업되어 있습니다.)
	Wiegand 출력 V_{OH}	최소 4.8 V
	Wiegand 출력 V_{OL}	최대 0.2 V
	Wiegand 출력 풀업 저항	1 k Ω 으로 내부 풀업
	릴레이	전압: 최대 30 VDC 전류: 최대 2 A

* RF 인식 거리는 설치 환경에 따라 다를 수 있습니다.

제품 크기

(단위: mm)

* 치수 공차는 $\pm 0.3\text{mm}$ 입니다.



FCC 준수 정보

이 기기는 FCC 규제의 Part 15를 준수합니다.

작동은 다음의 두 조건을 따릅니다.

- (1) 이 기기는 해로운 전파 방해를 발생시키지 않습니다.
- (2) 이 기기는 원치 않는 작동을 일으키는 전파 방해를 포함한 어떠한 전파 방해도 수용합니다.

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- 수신 안테나의 방향을 조정하거나 재설치합니다.
- 장비와 수신기 사이의 간격을 늘립니다.
- 장비를 수신기가 연결된 회로와 다른 회로의 콘센트에 연결합니다.
- 판매업체나 숙련된 라디오/TV 기술자에게 문의합니다.

제조 업체가 승인하지 않은 제품 변경 또는 개조에 대해서는 FCC 규칙에 따라 제품을 사용할 수 있는 권리가 무효화 됩니다.

이 제품과 제품의 안테나를 다른 안테나 또는 RF 전송 장치와 함께 설치하지 마십시오.
사용자(또는 근처의 다른 사람)와 제품의 안테나간에 최소 20cm의 거리를 유지하십시오.

부록

면책 조항

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- 의료, 인명 구조, 생명 유지와 관련된 상황이나 제품의 오작동으로 인해 사람이 다치거나 목숨을 잃을 수 있는 상황에서는 슈프리마의 제품을 사용하지 마십시오. 만약 구매자가 앞에 예로 든 상황에서 제품을 사용하다가 사고가 발생한다면, 설사 제품의 설계나 생산 과정에서 부족한 점이 발견되어 이를 중요한 과실로 주장한다 하더라도 슈프리마의 직원, 자회사, 지사, 제휴사, 배포사는 책임을 지지 않으며, 변호사 선임비를 포함하여 이와 관련한 모든 직간접적인 비용이나 지출에 대해서도 변제하지 않습니다.
- 슈프리마는 제품의 안정성, 기능, 디자인을 개선하기 위해 적절한 공지 없이 어느 때이건 제품의 규격과 명세서를 변경할 수도 있습니다. 설계자들은 "구현될 예정"이나 "정의되지 않음"으로 표시된 기능이나 설명은 항상 변동될 수 있다는 점을 염두에 두어야 합니다. 슈프리마는 멀지 않은 미래에 이러한 것들을 구현하거나 정의할 것이며, 호환성의 문제를 포함하여 이로 인해 발생할 수 있는 어떠한 문제점에 대해서도 책임을 지지 않습니다.
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Version 3, 29 June 2007

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
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- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
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