

# BioEntry P2

## 設置ガイド

バージョン 1.02

日本語

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# 安全にお使いいただくために

本製品を使用する前に、ご自身や他人への怪我を未然に防ぎ、物的損害を防止するために、この「安全にお使いいただくために」をお読みください。本マニュアルの「製品」という用語は、製品および製品に付属するすべての品目を指します。

## 指示アイコン



**警告:**この記号は、死亡または重傷につながるおそれのある状況を示しています。



**注意:**この記号は、中度の傷害や物的損害をもたらすおそれのある状況を示しています。



**注意:**この記号は、注記または追加情報を示します。



### 警告

#### 設置場所

本製品を無断で設置したり修理したりしないでください。

- 感電、火災、または製品の損傷につながるおそれがあります。
- あらゆる改造により、または取り付け手順に従わなかったために損傷が生じた場合は、製造元の保証が無効になることがあります。

本製品を、直射日光の当たる場所、湿気の多い場所、埃やすずの多い場所、ガス漏れがありそうな場所には置かないでください。

- 感電または火災につながるおそれがあります。

本製品を、熱器具の近くなど高温になる場所に置かないでください。

- 過熱により火災につながるおそれがあります。

本製品を、乾燥した場所に設置してください。

- 湿気や液体は感電や製品の損傷につながるおそれがあります。

本製品を、無線周波数の影響を受ける場所に設置しないでください。

- 火災や製品の損傷につながるおそれがあります。

#### お取り扱い

本製品は乾燥した状態にしておいてください。

- 湿気や液体は感電、火災、または製品の損傷につながるおそれがあります。

損傷した電源アダプタ、プラグ、緩んだコンセントは使用しないでください。

- 接続部がしっかりと固定されていないと、感電や火災の原因になるおそれがあります。

電源コードを折り曲げたり損傷させたりしないでください。

- 感電または火災につながるおそれがあります。



## 注意

### 設置場所

本製品を、直射日光や紫外線が当たる場所に設置しないでください。

- 製品の損傷、故障、変色、変形につながるおそれがあります。

電源ケーブルを人が通る場所に取り付けしないでください。

- 負傷や製品の損傷につながるおそれがあります。

本製品を、磁石、テレビ、モニター（特に CRT モニター）、スピーカーなど磁気を発する物の近くに設置しないでください。

- 本製品が故障するおそれがあります。

複数の製品を設置する場合は、製品の間で最低限の間隔を空けてください。

- 本製品が他の製品から放射される無線周波数の影響を受けて、故障するおそれがあります。

DC 12 V および 1,500 mA 以上の電源アダプタのみを使用してください。

- 適切な電源を使用しないと、本製品が正しく動作しないおそれがあります。

Secure I/O 2、電子ロック、および本製品に対して、独立した電源を使用してください。

- 同じ電源を接続して使用すると、本製品が誤動作するおそれがあります。

### お取り扱い

本製品を落下させたり、衝撃を与えたりしないでください。

- 本製品が故障するおそれがあります。

製品のファームウェアのアップグレードが進行中の電源供給が中断されないように注意してください。

- 本製品が故障するおそれがあります。

パスワードを他人に開示しないでください。また、定期的に変更してください。

- そうしないと、不正な侵入が発生するおそれがあります。

本製品のボタンを無理に押ししたり、鋭利な工具で押ししたりしないでください。

- 本製品が故障するおそれがあります。

本製品を非常に高温または低温になる場所に保管しないでください。本製品は -20 °C ~ 50 °C の温度で使用することをお勧めします。

- 本製品が故障するおそれがあります。

本製品を清掃する際は、次の点に注意してください。

- 清潔で乾燥したタオルで本製品を拭きます。
- 本製品を消毒する必要がある場合は、布またはティッシュを適量の消毒用アルコールで湿らせ、指紋センサーなどの露出した表面をすべて丁寧に清掃します。消毒用アルコール（イソプロピルアルコール含有率 70 %）と、清潔で研磨性のない布（レンズ用ティッシュなど）を使用します。
- 本製品の表面に液体を直接塗布しないでください。

本製品を本来の用途以外に使用しないでください。

- 本製品が故障するおそれがあります。


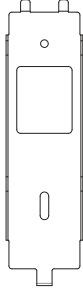
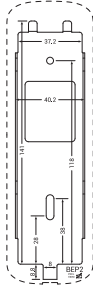
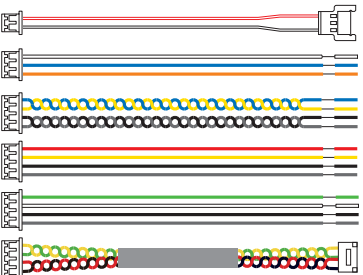
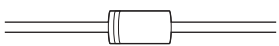

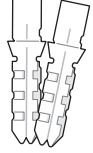
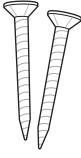



### RTC バッテリー

正しくないタイプのバッテリーに交換すると、バッテリーが爆発する恐れがあります。

バッテリーの廃棄は、地域または国際的な該当する廃棄物規制に従ってください。

# はじめに

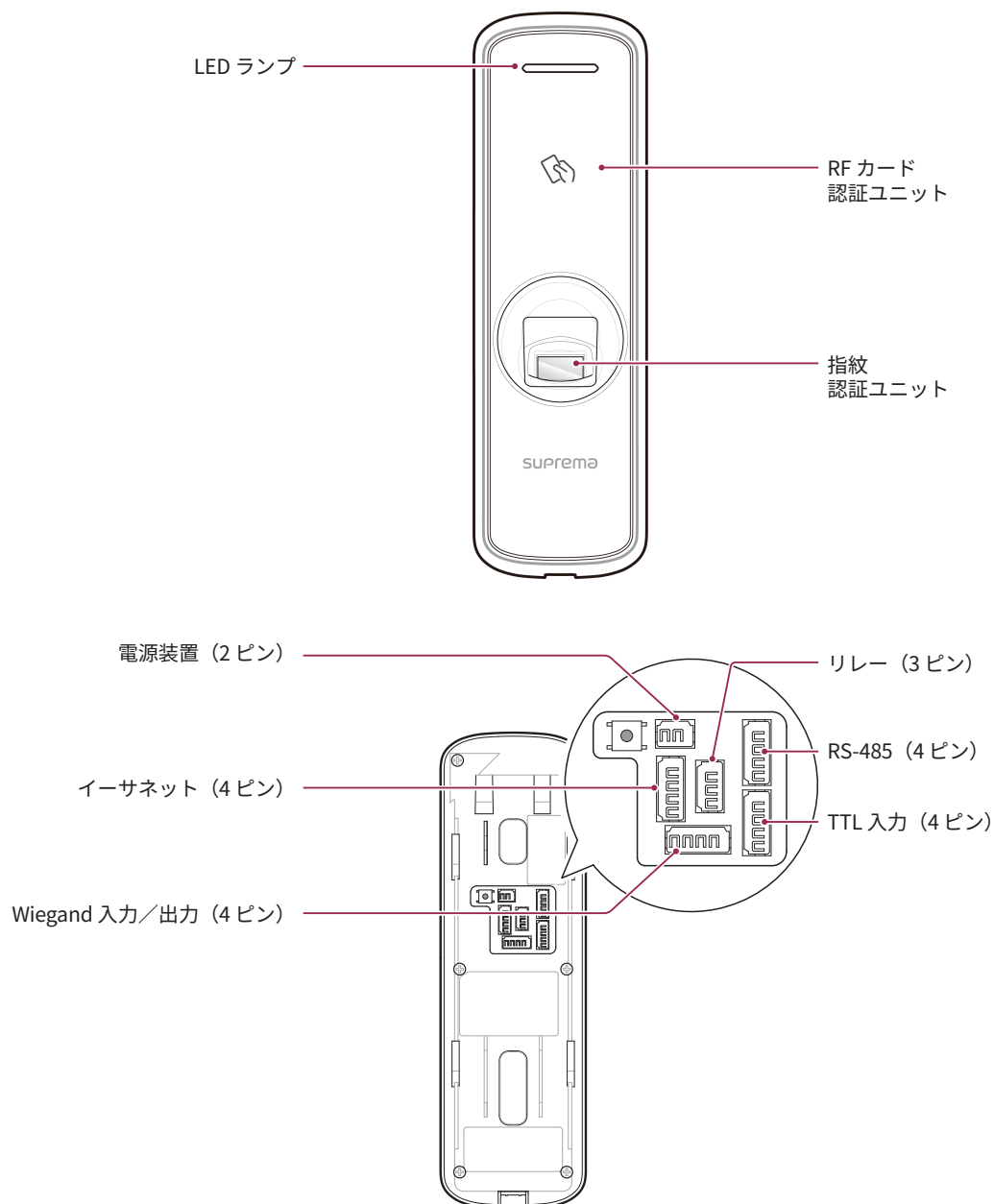
## 部品

			
<p>BioEntry P2</p>	<p>壁用ブラケット</p>	<p>穴あけ用テンプレート</p>	
			
<p>接続ケーブル</p>	<p>ダイオード</p>	<p>120 Ω 抵抗器</p>	<p>PVC アンカー x 2</p>
			
<p>固定ねじ x 2</p>	<p>ブラケット固定ねじ(星形)</p>	<p>クイックガイド</p>	<p>オープンソースのソフトウェアガイド</p>



部品は設置環境によって異なる場合があります。

## 各部品の名前と機能



名前	説明
LED ランプ	製品の動作状態を LED ランプの色で示します。
RF カード認証ユニット	入退出用に RF カードを読み取ります。
指紋認証ユニット	入退出用にユニット上の指紋を読み取ります。
電源装置 (2 ピン)	電源ケーブルを接続します。
リレー (3 ピン)	リレーケーブルを接続します。
イーサネット (4 ピン)	イーサネットケーブルを接続します。
RS-485 (4 ピン)	RS-485 ケーブルを接続します。
TTL 入力 (4 ピン)	TTL 入力ケーブルを接続します。
Wiegand 入力/出力 (4 ピン)	Wiegand 入出力ケーブルを接続します。

## ケーブルとコネクタ

### 電源装置



ピン	名前	色
1	PWR +VDC	赤 (白のストライプ)
2	PWR GND	黒 (白のストライプ)

### リレー



ピン	名前	色
1	RLY NO	白
2	RLY COM	青
3	RLY NC	オレンジ

### RS-485



ピン	名前	色
1	485 TRXP	青
2	485 TRXN	黄
3	485 GND	黒
4	SH GND	グレー

## TTL入力



ピン	名前	色
1	TTL IN0	赤
2	TTL IN1	黄
3	TTL GND	黒
4	SH GND	グレー

## Wiegand 入力および出力



ピン	名前	色
1	WG D0	緑
2	WG D1	白
3	WG GND	黒
4	SH GND	グレー

## イーサネット



ピン	名前	色
1	ENET RXN	黄
2	ENET RXP	緑
3	ENET TXN	赤
4	ENET TXP	黒

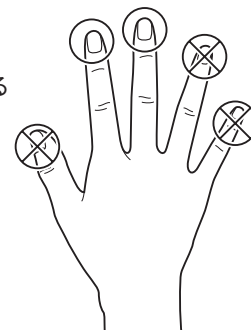


## 指紋を登録する方法

指紋の認証率を上げるために、指紋を正しく登録してください。BioEntry P2 では、ユーザーの指紋入力の方法と位置が変化しても指紋を認識できます。指紋を登録する際に次の点に注意すると、認証率が上がる場合があります。

### 指紋を入力する指を選ぶ

- 特定の指の指紋を使用できない場合、例えば片手で荷物を持ち上げていたり、指に怪我をしていたりする場合に備えて、ユーザーごとに最大 10 個の指紋を登録できます。
- 指紋がうまく認識されない場合は、2 回連続して同じ指で登録すると認証率が上がる場合があります。
- 指に切り傷がある場合や、指紋がはっきりしない場合は、別の指の指紋を登録します。
- 指紋をスキャンする際に人差し指または中指を使用することを推奨します。指紋センサーの中央に別の指を正確に置くことが難しい場合は、認証率が低下する場合があります。



### 指紋の登録方法

- 1 指紋を登録する指を指紋認証ユニットに置き、認証率を上げるために指を軽く押し付けます。



- 2 ビープ音の後に、登録した指の指紋を再度スキャンします (登録する指の指紋を 2 回スキャンします)。



#### 指紋の登録に関する注意

指紋認識時には最初に登録した指紋と照合されるため、最初の指紋登録が最も重要です。指紋を登録する際は次の点に注意してください。

- 指をセンサーに密着させてしっかりと押し付けます。
- 指紋の中央をセンサーの中央に合わせます。
- 指に切り傷がある場合や、指紋がはっきりしない場合は、別の指の指紋を登録します。
- 画面の指示に従って、指を動かさずに指紋を正しくスキャンします。
- 指を動かしてセンサーとの接触面が小さくなったり指の角度が変わったりすると、指紋認証が行われません。



#### 指紋認識が失敗した場合

BioEntry P2 は、季節の変化や指の状態にかかわらず、指紋を認識できます。ただし、認証率は、外部環境や指紋入力方法によって異なる場合があります。

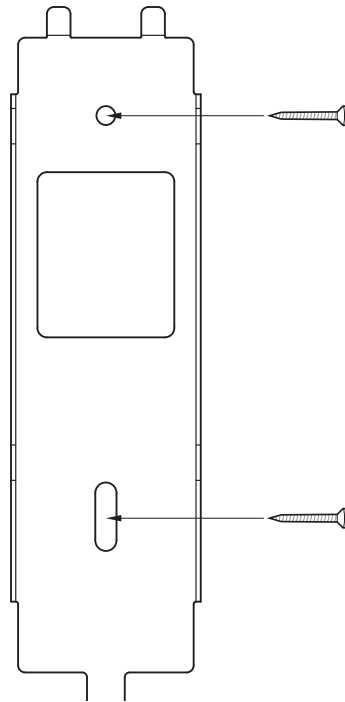
指紋認証がスムーズにいかない場合は、以下の措置を講じることをお勧めします。

- 指が水や汗で濡れている場合は、指を乾かしてからスキャンします。
- 指が乾燥し過ぎている場合は、指先に息を当ててから指をスキャンします。
- 指を切った場合は、別の指の指紋を登録します。
- 最初に登録した指紋が正しくスキャンされていない場合があるため、「指紋の登録に関する注意」に従って、もう一度指紋を登録してください。

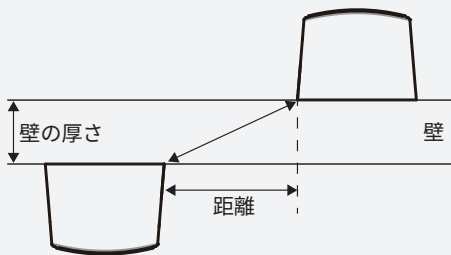
# 設置場所

## ブラケットと製品の固定

- 1 付属のドリル用テンプレートを使用して、ブラケットを取り付ける正しい位置を決定します。固定ねじをブラケットに通して、BioEntry P2 の取り付け位置にブラケットをしっかりと固定します。

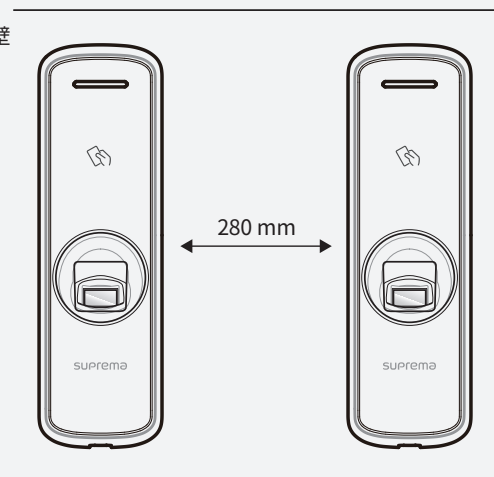


- コンクリート壁に BioEntry P2 を設置する場合は、ドリルで穴を開け、PVC アンカーを挿入して、固定ねじで固定します。
- RF 干渉を回避するには、最小分離距離を維持する必要があります。

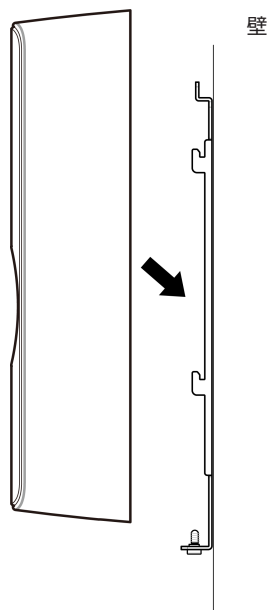


壁の厚さ	距離
100 mm	250 mm
120 mm	250 mm
150 mm	180 mm

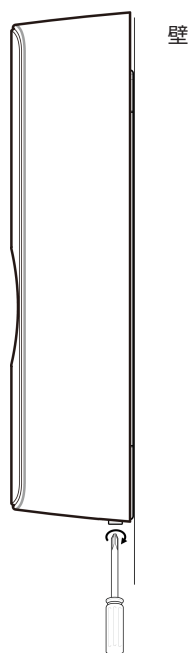
壁



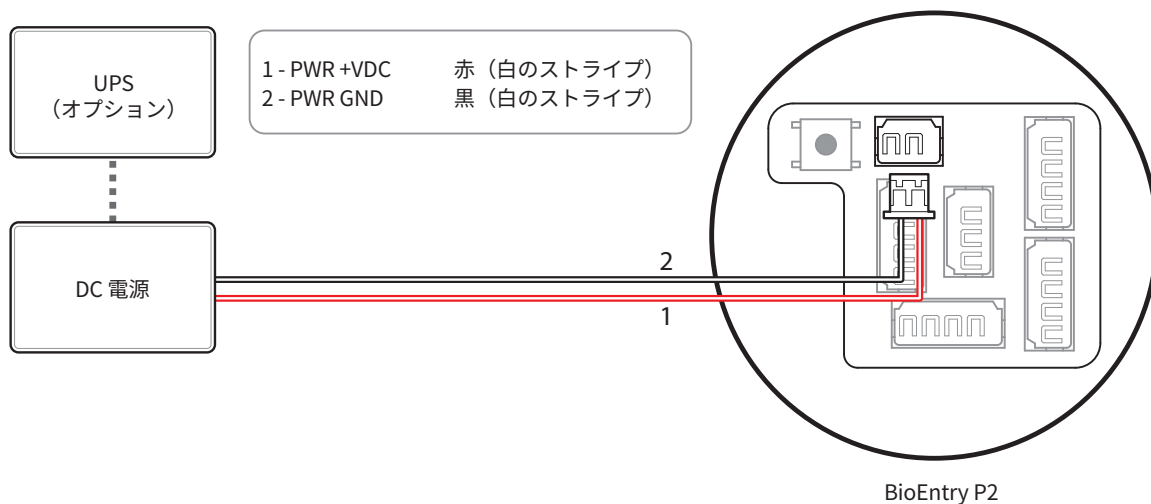
2 BioEntry P2 を固定ブラケットに取り付けます。



3 製品固定ねじを回して、BioEntry P2 をブラケットに組み付けます。



## ケーブルの接続



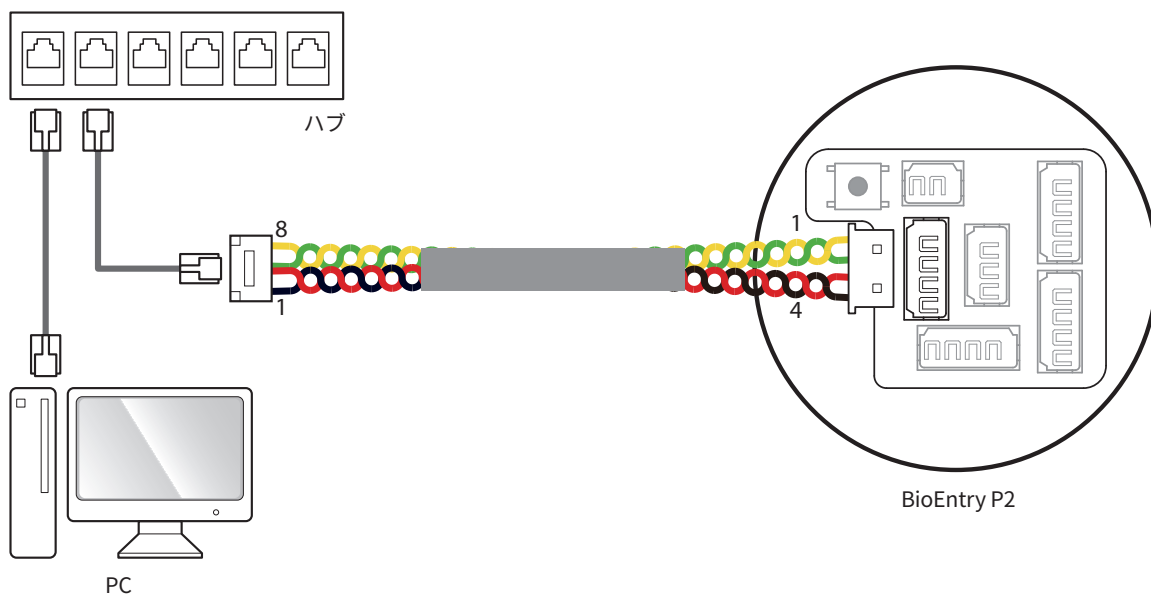
- IEC/EN 62368-1 の認可を受けた 1,500 mA 以上の DC 12 V (± 10 %) 電源アダプタを使用します。別のデバイスを電源アダプタに接続して使用する場合は、端末と別のデバイスに必要な合計電力消費量以上の電流容量を備えたアダプタを使用してください。
- Secure I/O 2、電子ロック、および BioEntry P2 ごとに独立した電源を使用してください。これらのデバイスを同じ電源に接続して使用すると、デバイスが正常に機能しない場合があります。

## ネットワーク接続

### TCP/IP

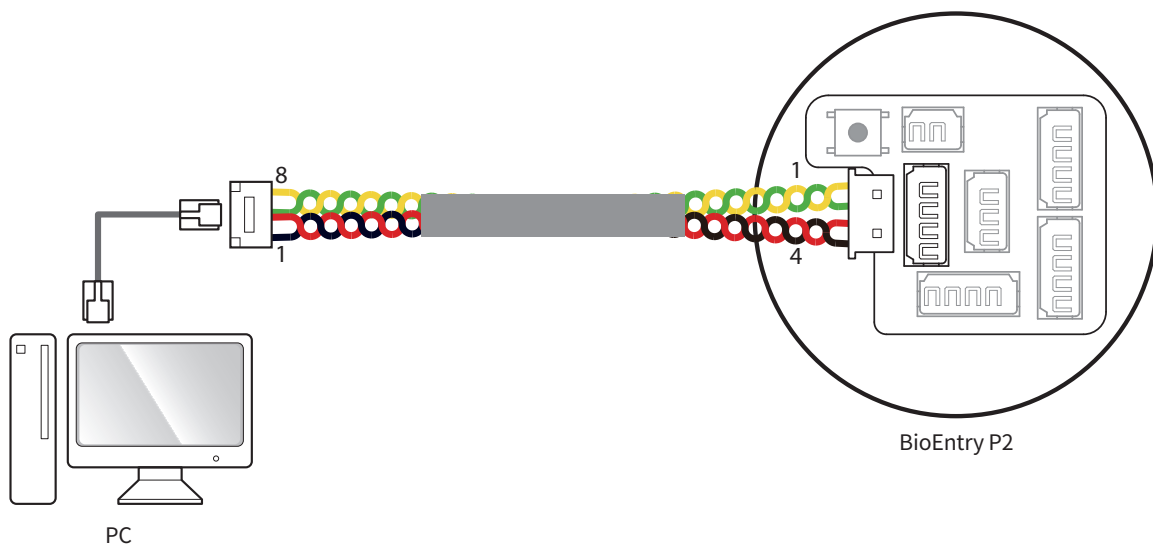
#### LAN 接続 (ハブに接続)

一般的なタイプの CAT-5e ケーブルを使用して、製品をハブに接続できます。

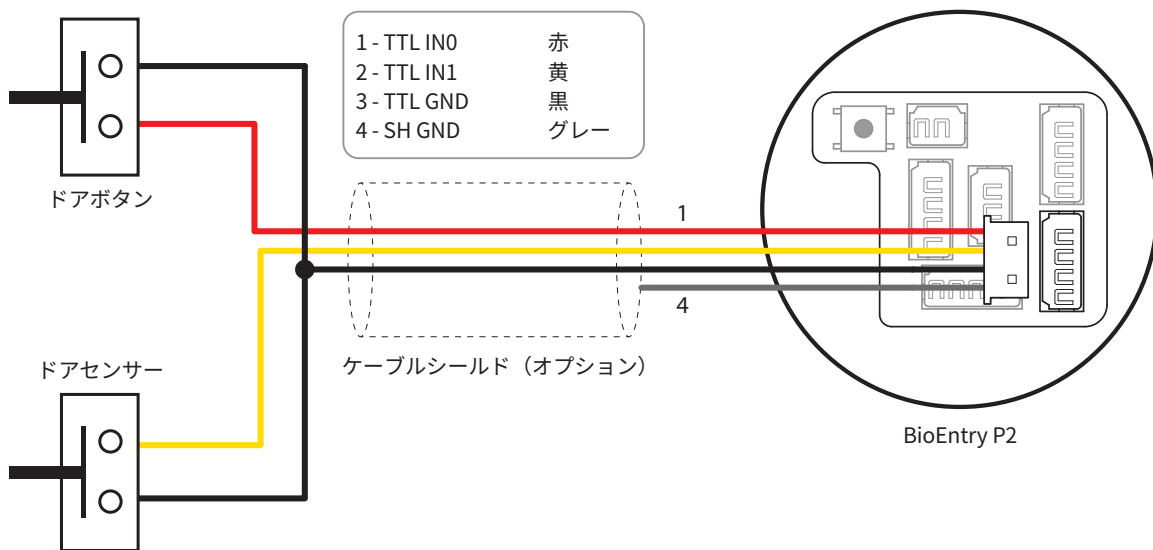


### LAN 接続(直接 PC に接続)

BioEntry P2 には、クロスケーブルではなく、通常のストレートタイプの CAT-5e ケーブルを使用して直接 PC に接続できるように、自動 MDI/MDIX 機能が搭載されています。



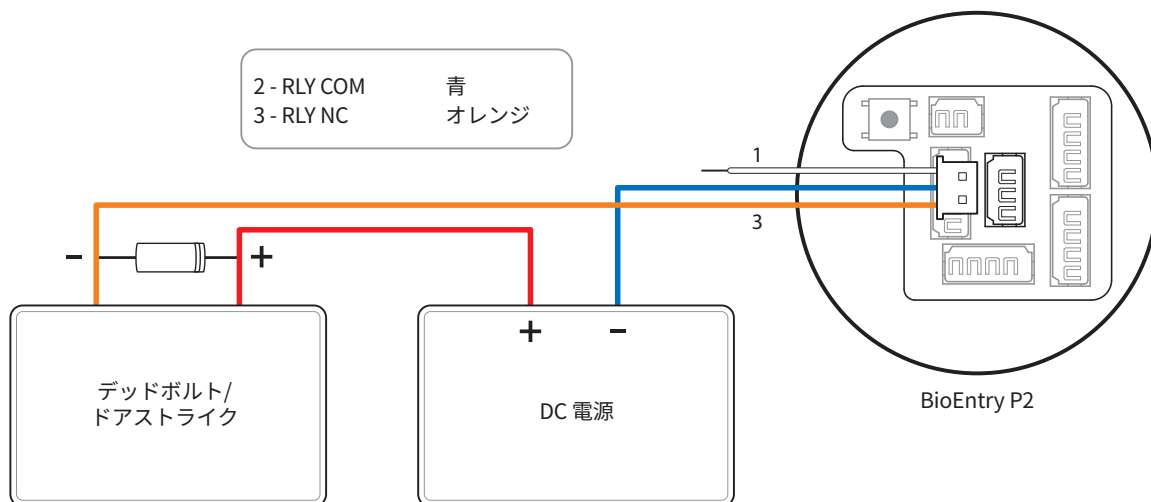
### TTL 入力接続



## リレー接続

### フェールセーフロック

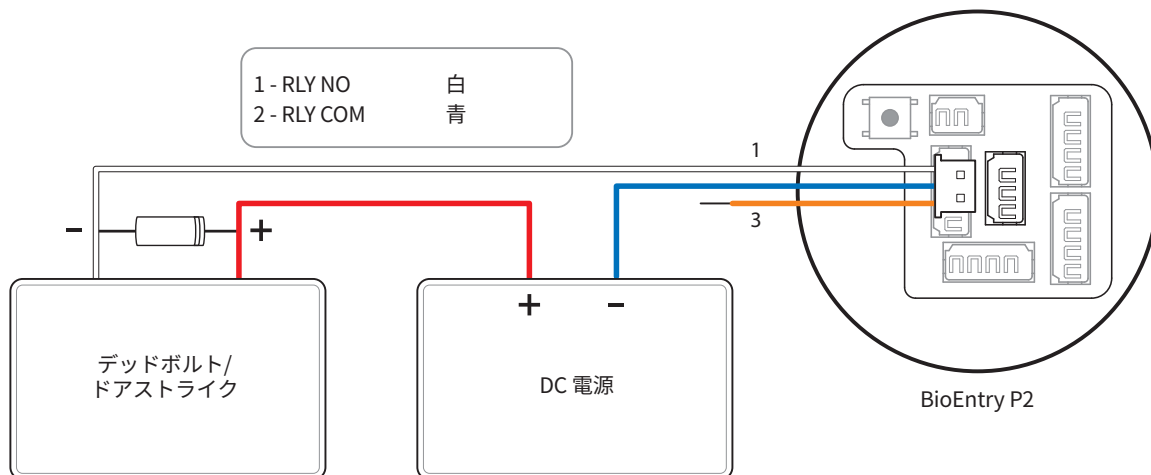
フェールセーフロックを使用するために、下の図のように N/C リレーを接続します。通常、フェールセーフロック用のリレーには電流が流れています。リレーが作動して電流が遮断されると、ドアが開きます。停電や外部の要因のために製品に接続した電源が切断された場合は、ドアが開きます。



- 図のようにドアロックワイヤーの両側にダイオードを取り付けて、ドアロックの作動時に発生する逆電流からリレーを保護します。
- ダイオードの設置方向に注意してください。ダイオードはドアロックの近くに取り付けます。
- BioEntry P2 とドアロックには別々の電源を使用してください。
- Suprema のスタンドアロン型インテリジェントリーダーには、外部コントローラなしでドアを直接ロック/アンロックできる内部リレーが内蔵されており、利便性が向上しています。ただし、セキュリティを必要とする入退管理の用途では、ドアのロック解除を引き起こす可能性のある改ざん攻撃を防止するため、リーダーの内部リレーの使用はお勧めしません。このような用途では、ドアの安全な側に設置された Suprema の Secure I/O 2、DM-20、CoreStation などのロックコントロールには個別のリレーユニットを使用することを強くお勧めします。

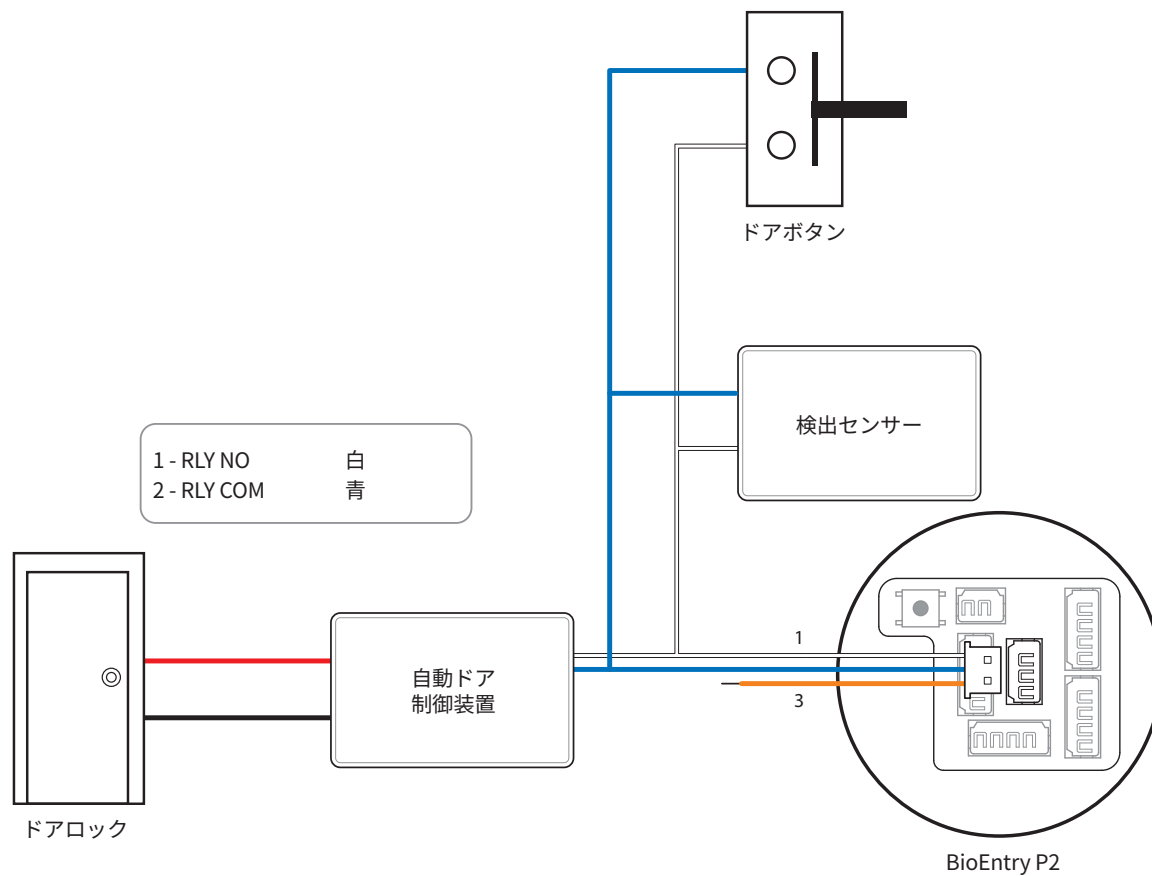
## フェールセキュアロック

フェールセキュアロックを使用するには、下の図のように N/O リレーを接続します。通常、フェールセキュアロック用のリレーに電流は流れていません。電流がリレーによって作動すると、ドアが開きます。停電や外部の要因のために、製品に接続した電源が切断された場合は、ドアがロックします。



- 図のようにドアロックワイヤーの両側にダイオードを取り付けて、ドアロックの作動時に発生する逆電流からリレーを保護します。
- ダイオードの設置方向に注意してください。ダイオードはドアロックの近くに取り付けます。
- BioEntry P2 とドアロックには別々の電源を使用してください。
- Suprema のスタンドアロン型インテリジェントリーダーには、外部コントローラなしでドアを直接ロック/アンロックできる内部リレーが内蔵されており、利便性が向上しています。ただし、セキュリティを必要とする入退管理の用途では、ドアのロック解除を引き起こす可能性のある改ざん攻撃を防止するため、リーダーの内部リレーの使用はお勧めしません。このような用途では、ドアの安全な側に設置された Suprema の Secure I/O 2、DM-20、CoreStation などのロックコントロールには個別のリレーユニットを使用することを強くお勧めします。

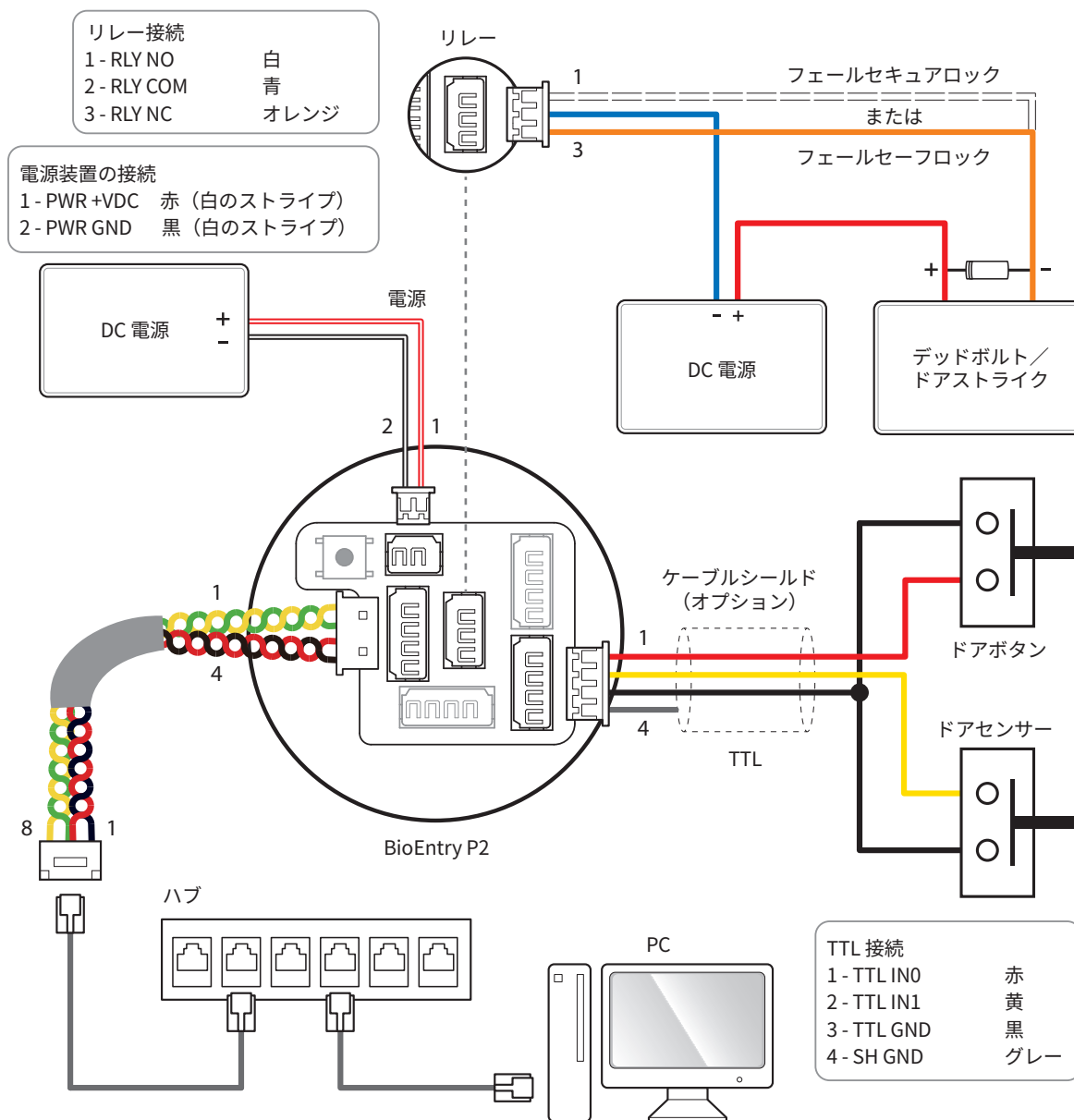
自動ドア接続





## スタンドアロンでの接続

BioEntry P2 は、個別の I/O デバイスを接続せずにドアロック、ドアボタン、およびドアセンサーに直接接続できます。

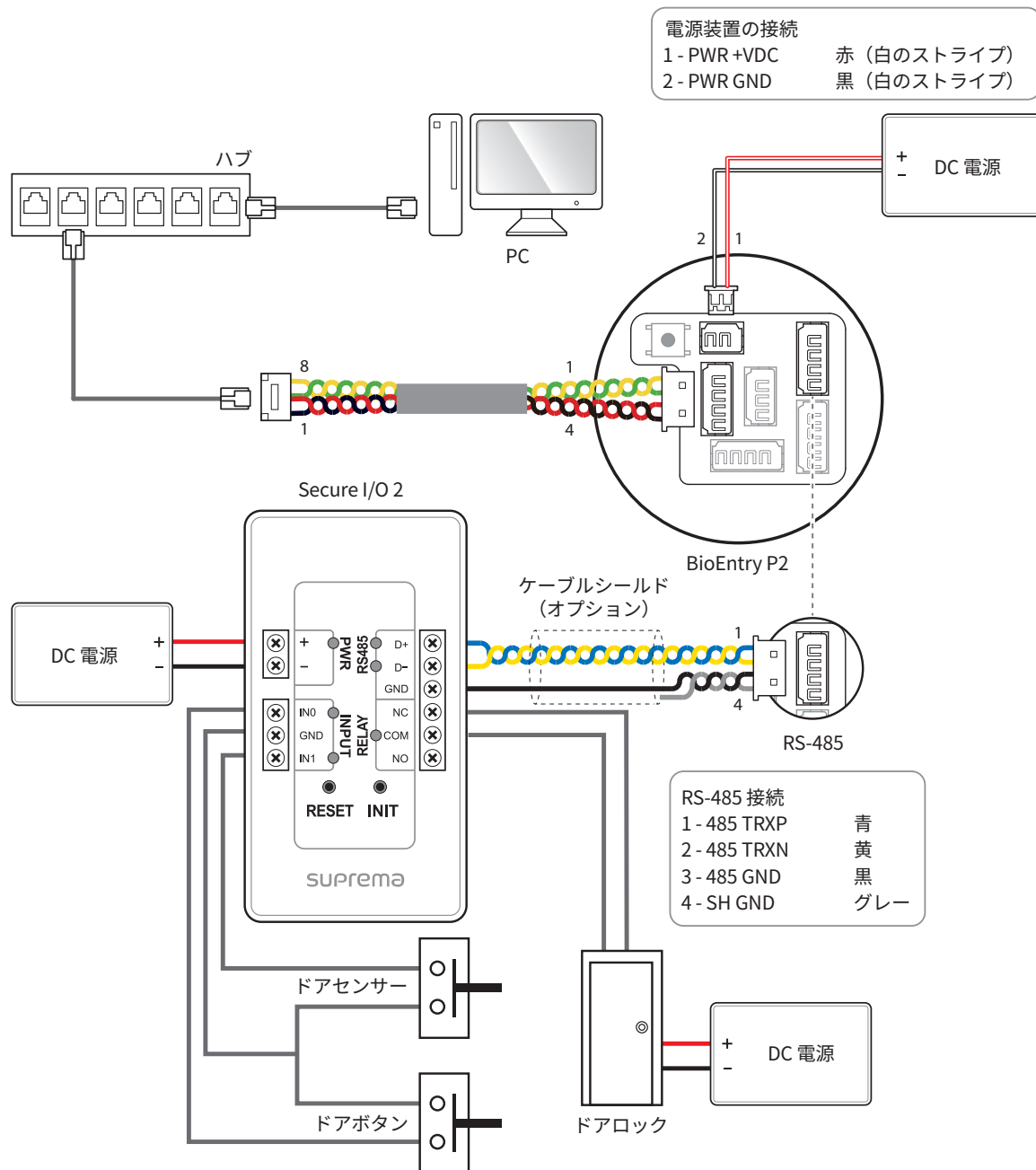


- BioEntry P2 は、RS485 ケーブルでスレーブデバイスと接続したマルチドアコントローラとして使用できます。スレーブデバイスはダミーリーダーとして使用され、認証はマスターデバイスで実行されます。
- Xpass, XPass 2 がマスターデバイスに接続されている場合は、カード認証のみを使用できます。
- 接続できるスレーブデバイスの最大数は、認証方式、ユーザー数、およびデバイス数によって異なります。また、スレーブデバイスの数が指紋認証の速度に影響します。
- 1 台のマスターデバイスで 31 台のスレーブデバイスを制御できます。RS485 の帯域幅では、最高 7 台の指紋認証デバイスを接続できます。
- Suprema のスタンドアロン型インテリジェントリーダーには、外部コントローラなしでドアを直接ロック/アンロックできる内部リレーが内蔵されており、利便性が向上しています。ただし、セキュリティを必要とする入退管理の用途では、ドアのロック解除を引き起こす可能性のある改ざん攻撃を防止するため、リーダーの内部リレーの使用はお勧めしません。このような用途では、ドアの安全な側に設置された Suprema の Secure I/O 2、DM-20、CoreStation などのロックコントロールには個別のリレーユニットを使用することを強くお勧めします。
- 詳細については、Suprema 技術サポートチーム ([support@suprema.co.kr](mailto:support@suprema.co.kr)) にお問い合わせください。

## Secure I/O 2 への接続

Secure I/O 2 は、RS-485 ケーブルで BioEntry P2 に接続できる I/O デバイスです。BioEntry P2 と Secure I/O 2 の間の接続が失われたり、外部要因により BioEntry P2 への電源が切断されたりしても、セキュリティを維持できます。

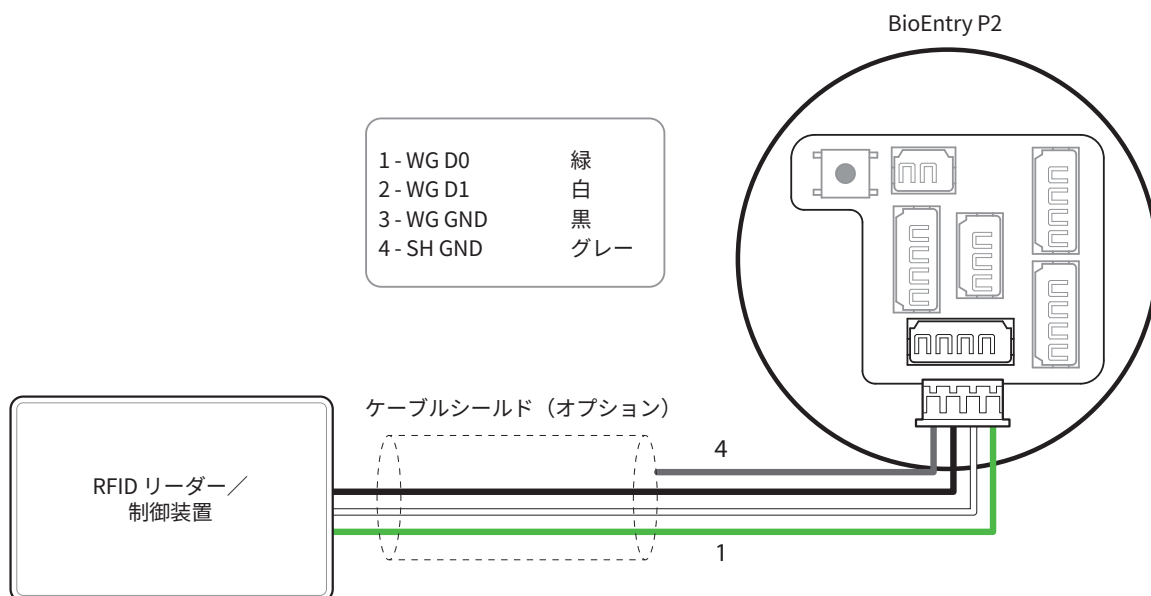
- RS-485 ケーブルには、最大長が 1.2 km の AWG 24 ツイストペアを使用します。
- RS-485 のデジチェーンで接続する場合は、デジチェーン接続の両端に終端抵抗 (120 Ω) を接続してください。中央の線に接続すると、信号レベルが小さくなり、通信性能が低下します。必ずデジチェーン接続の両端に接続してください。



- BioEntry P2 は、RS485 ケーブルでスレーブデバイスと接続したマルチドアコントローラとして使用できます。スレーブデバイスはダミーリーダーとして使用され、認証はマスターデバイスで実行されます。
- Xpass、XPass 2 がマスターデバイスに接続されている場合は、カード認証のみを使用できます。
- 接続できるスレーブデバイスの最大数は、認証方式、ユーザー数、およびデバイス数によって異なります。また、スレーブデバイスの数が指紋認証の速度に影響します。
- 1 台のマスターデバイスで 31 台のスレーブデバイスを制御できます。RS485 の帯域幅では、最高 7 台の指紋認証デバイスを接続できます。
- 詳細については、Suprema 技術サポートチーム ([support@suprema.co.kr](mailto:support@suprema.co.kr)) にお問い合わせください。

## Wiegand 接続

Wiegand 入出力デバイスとして使用します



## ネットワーク設定のリセット

- 1 電源を入れます。
- 2 デバイスの背面にあるネットワークのリセットボタンを、デバイスが再起動するまで押し続けます。
- 3 デバイスをデフォルト値で接続します。
  - TCP/IP アドレス: DHCPアドレス割り当て (DHCPアドレスの割り当てに失敗した場合は、169.254.x.xが設定されます。)
  - サーバーモード: 無効
  - RS-485: デフォルトの115200 bps
- 4 TCP/IP アドレスまたは RS-485 情報を変更します。
- 5 電源をいったん切った後、もう一度入れて、ネットワーク設定が正しいことを確認します。

## 工場出荷時のデフォルト設定の復元

これにより、デバイス上のすべてのデータとルート証明書が削除され、設定がリセットされます。

- 1 電源を入れます。
- 2 リセットボタンをすばやく3回押します。
- 3 黄色の LED が点滅している場合は、リセットボタンをもう一度押してください。



デバイスにルート証明書がない場合は、工場出荷時のデフォルト設定に復元できません。

# 製品仕様

カテゴリ	機能	仕様	
		BEP2-OD	BEP2-OA
認証情報	生体認証	指紋	
	LF カードオプション	EM	EM, HID Prox
	HF カードオプション	MIFARE、MIFARE Plus、DESFire EV1/ EV2*、FeliCa	MIFARE、MIFARE Plus、DESFire EV1/ EV2*、FeliCa、iCLASS SE/SR/Seos
	NFC カード	サポート対象	
	RF 読み取り範囲**	MIFARE / DESFire / EM / HID Prox / iCLASS: 50 mm, FeliCa: 30 mm	
全般	CPU	1.0 GHz	
	メモリ	8 GB Flash + 64MB RAM	
	クリプトチップ	サポート対象	
	LED	マルチカラー	
	サウンド	マルチトーンブザー	
	動作温度	-20°C - 50°C	
	保管温度	-40°C - 70°C	
	動作湿度	0% - 80%, 結露しないこと	
	保管湿度	0% - 90%, 結露しないこと	
	寸法 (W x H x D)	50 x 164 x 37.5 (mm)	
	重量	<ul style="list-style-type: none"> <li>デバイス: 162 g</li> <li>ブラケット (ワッシャーとボルトを含む): 39 g</li> </ul>	
	証明書	CE、FCC、KC、RoHS、REACH、WEEE	
	指紋	画像寸法	272 x 320 ピクセル
画像のビット深度		8 ビット、256 グレースケール	
解像度		500 dpi	
テンプレート		SUPREMA / ISO19794-2 / ANSI-378	
エクストラクタ		MINEX 認定および準拠	
容量	最大ユーザー数	10,000	
	最大クレデンシャル (1:N)	指紋: 10,000	
	最大クレデンシャル (1:1)	<ul style="list-style-type: none"> <li>指紋: 10,000</li> <li>カード: 10,000</li> <li>PIN: 10,000</li> </ul>	
	テキストログの最大数	1,000,000	
インターフェイス	画像ログの最大数	サポートされていません	
	イーサネット	サポート対象 (10/100 Mbps、自動 MDI/MDI-X)	
	RS-485	1 チャンネルマスター/スレーブ (選択可能)	
	Wiegand	1 チャンネル入力 / 出力 (選択可能)	
	TTL 入力	2 チャンネル入力	
	リレー	リレー 1	
	タンパー	サポート対象	
電気関連	電源	<ul style="list-style-type: none"> <li>デバイスの電源: DC12 V (最大600 mA)</li> <li>電源アダプター推奨仕様: DC12 V (±10%)、1.5 A***</li> </ul>	
	スイッチ入力 VIH	最小 3 V / 最大 5 V	
	スイッチ入力 VIL	最大 1V	
	スイッチプルアップ抵抗	4.7 kΩ (入力ポートは 4.7 kΩ でプルアップされます。)	
	Wiegand 出力 VOH	最小 4.8V	
	Wiegand 出力 VOL	最大 0.2V	
	Wiegand 出力プルアップ抵抗	1 kΩ の内部プルアップ	
	リレー	1 A @ 30 VDC Resistive load	

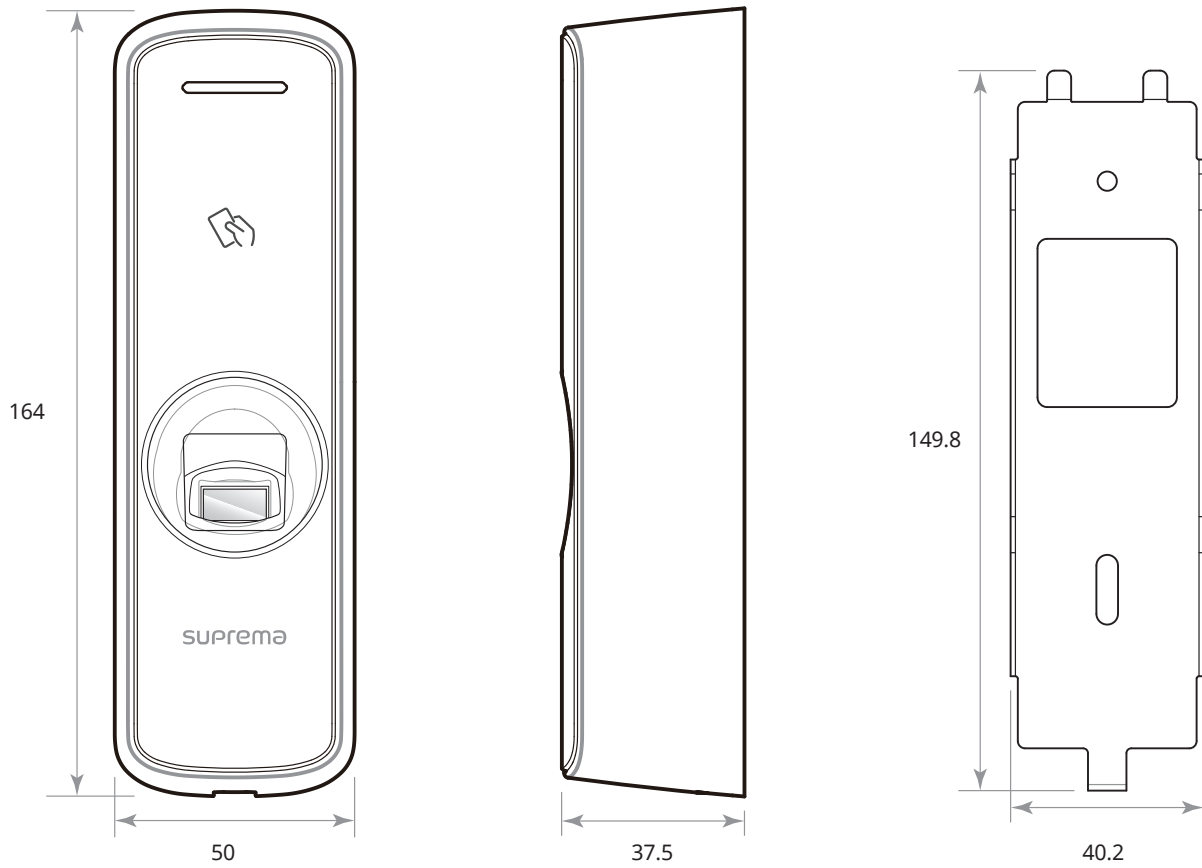
\* DESFire EV2 カードは、DESFire EV1 カードとの後方互換性によりサポートされています。CSN カードおよびスマートカード機能は、BioEntry P2 と互換性があります。

\*\* RF 読み取り範囲は、設置環境によって異なります。

\*\*\* 電源アダプターは別売品です。推奨仕様をご確認ください。

## 寸法

(単位: mm)

\* 公差は  $\pm 0.3$  mm です。

# FCC 準拠情報

このデバイスは、FCC 規則第 15 部に準拠しています。

動作は、次の 2 つの条件に従います。

- (1) このデバイスは、有害な電波干渉を引き起こしてはなりません。また、
- (2) このデバイスは、望ましくない動作を引き起こす可能性のある電波干渉を含め、受信したあらゆる電波干渉を許容する必要があります。



この装置は、FCC 規則の第 15 部に従って、クラス B デジタルデバイスの制限に準拠していることがテストおよび確認されています。これらの制限は、居住地域での設置において有害な電波干渉から適切に保護するためのものです。この装置は、無線周波エネルギーを生成、使用、および放射する可能性があり、指示に従って設置および使用しないと、無線通信に有害な電波干渉が発生することがあります。ただし、特定の設置で電波干渉が発生しないことを保証するものではありません。この装置のオフとオンを切り替えてみて、この装置によってラジオやテレビなどの受信に有害な電波干渉が発生することが判明した場合は、次の方法で電波干渉を解消してみてください。

- 受信アンテナの方向や場所を変更する。
- 装置と受信機の位置を離す。
- 受信機が接続されている回路とは別の回路のコンセントに機器を接続する。
- 販売店や、ラジオまたはテレビの経験豊富な技術者に相談する。

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- この機器とそのアンテナを、他のアンテナや送信機と一緒に設置または操作しないでください。
- RF 被曝の要件を満たすため、アンテナとこの機器の使用者の間隔を 20 cm 以上空ける必要があります。

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Version 3, 29 June 2007

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17F Parkview Tower, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13554, Rep. of KOREA

電話: +82 31 783 4502 | Fax: +82 31 783 4503 | お問い合わせ: sales\_sys@supremainc.com



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