

## Roto Safe | Connection diagrams

Connection diagrams  
for Eneo A / AF, Eneo C / CC / CF



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## Security

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## Connection diagrams

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The following diagrams are non-binding application examples. These are only intended to provide guidance for customers and do not represent customer-specific solutions.

Proper operation is the responsibility of the customer.

**INFO!**

Further information in the instructions:

Eneo Control Unit: IMO\_288

Eneo C / CC / CF: IMO\_438

Brief instructions for all Eneo versions: IMO\_497

Cable junction: IMO\_502

Specifications for power supply unit from third-party supplier: SUG\_3

The customer is obligated to ensure safe installation, use, maintenance and operation. The customer is furthermore obligated to ensure that the equipment is only installed by a qualified electrician; failure to do so may result in a risk of fire or risk of electric shock.

Compliance with the applicable standards and provisions must be ensured at all times; the installation company of the system bears full responsibility for this. The system may not be operated if compliance with the applicable standards and provisions cannot be ensured.

No guarantee is given for the application examples provided.

Roto Frank AG shall assume no liability for damage caused by use of the application examples, unless we are obligated to bear liability in accordance with legal provisions in cases of wilful intent.

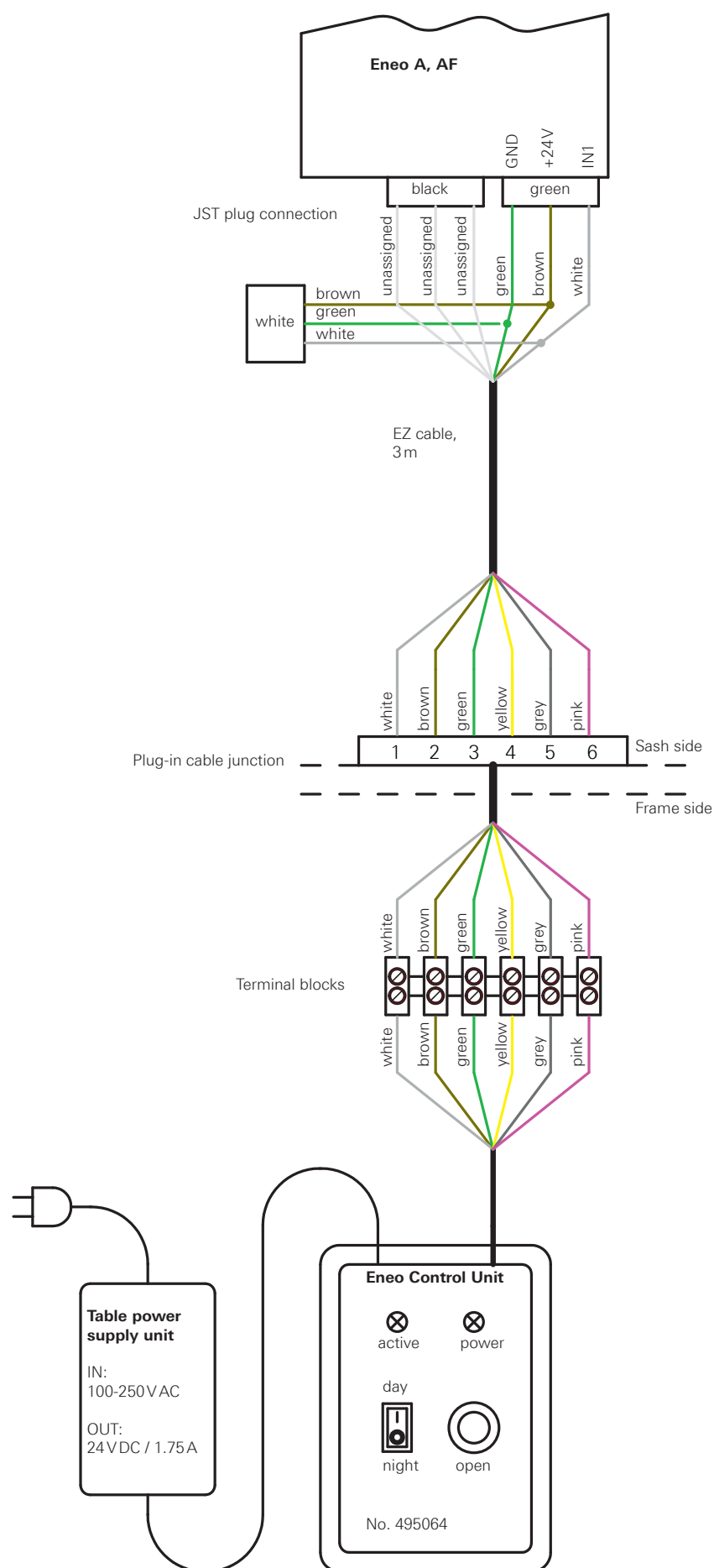
**INFO!**

Installation and maintenance work may only be carried out by a company specialising in electrical systems. There is a risk of death when using a mains voltage of 230 V (or 115 V). Only carry out work when the power supply is disconnected.

## Connection diagrams

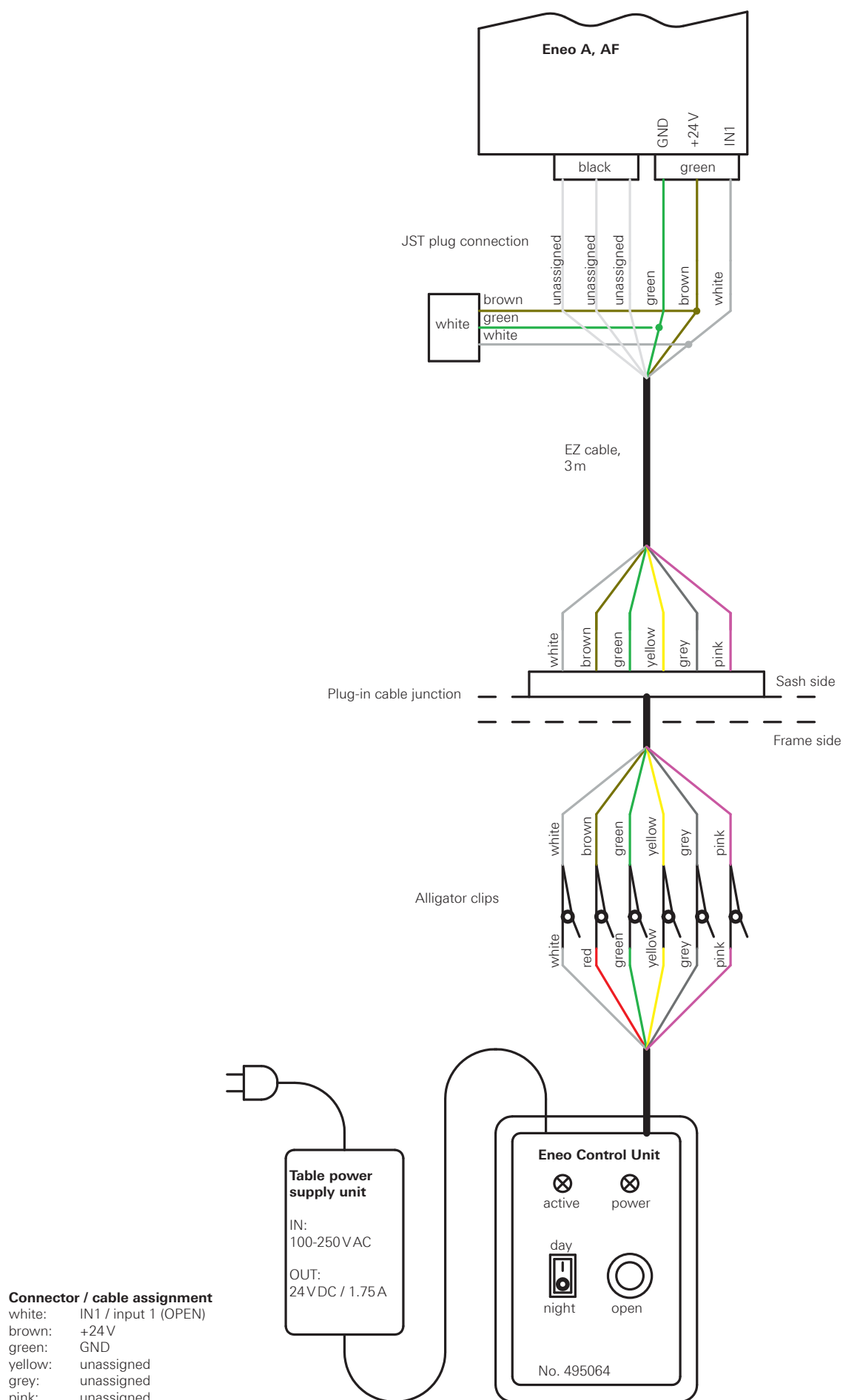
### Eneo A and AF

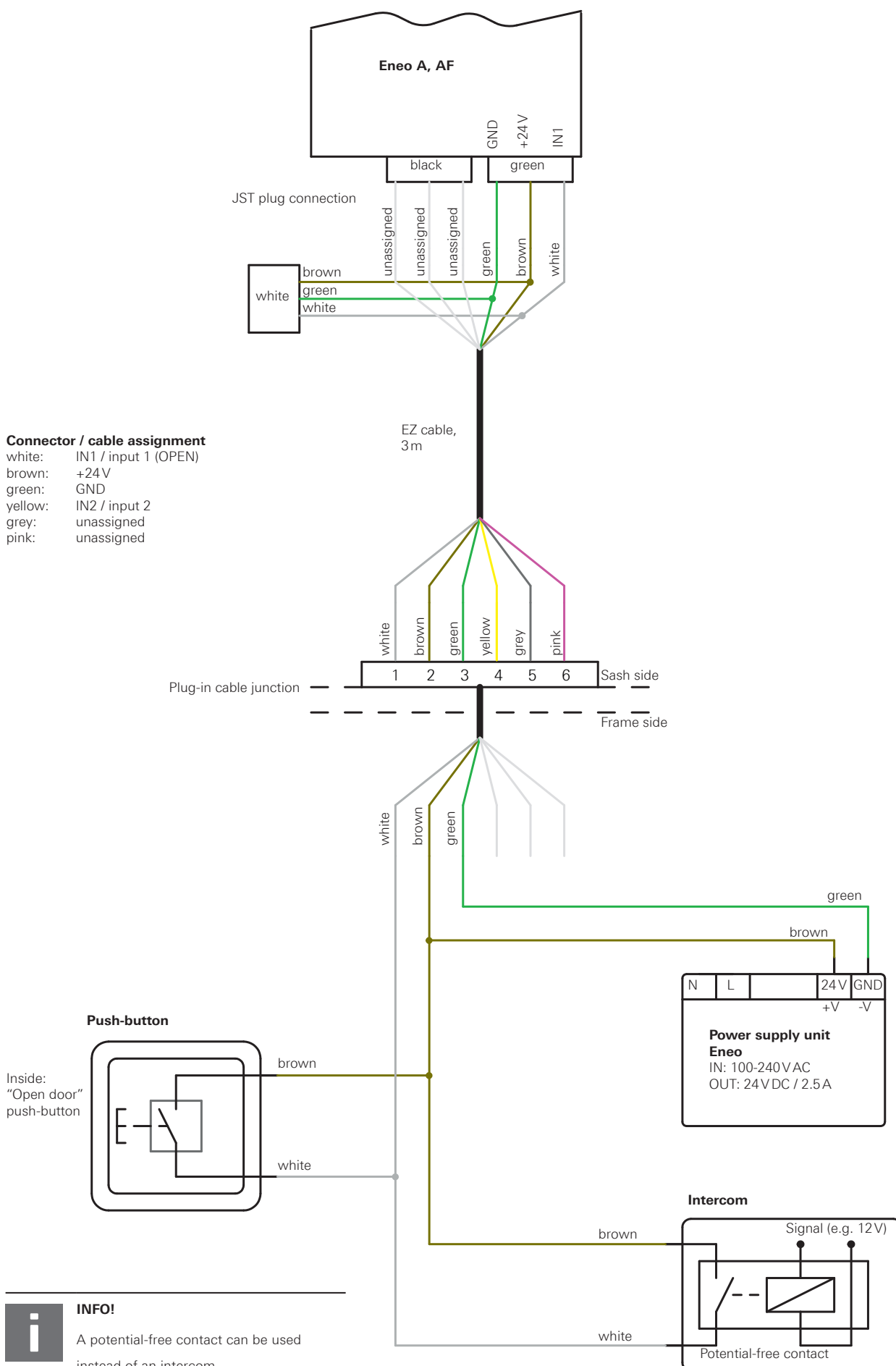
Eneo Control Unit with connecting cable



#### Connector / cable assignment

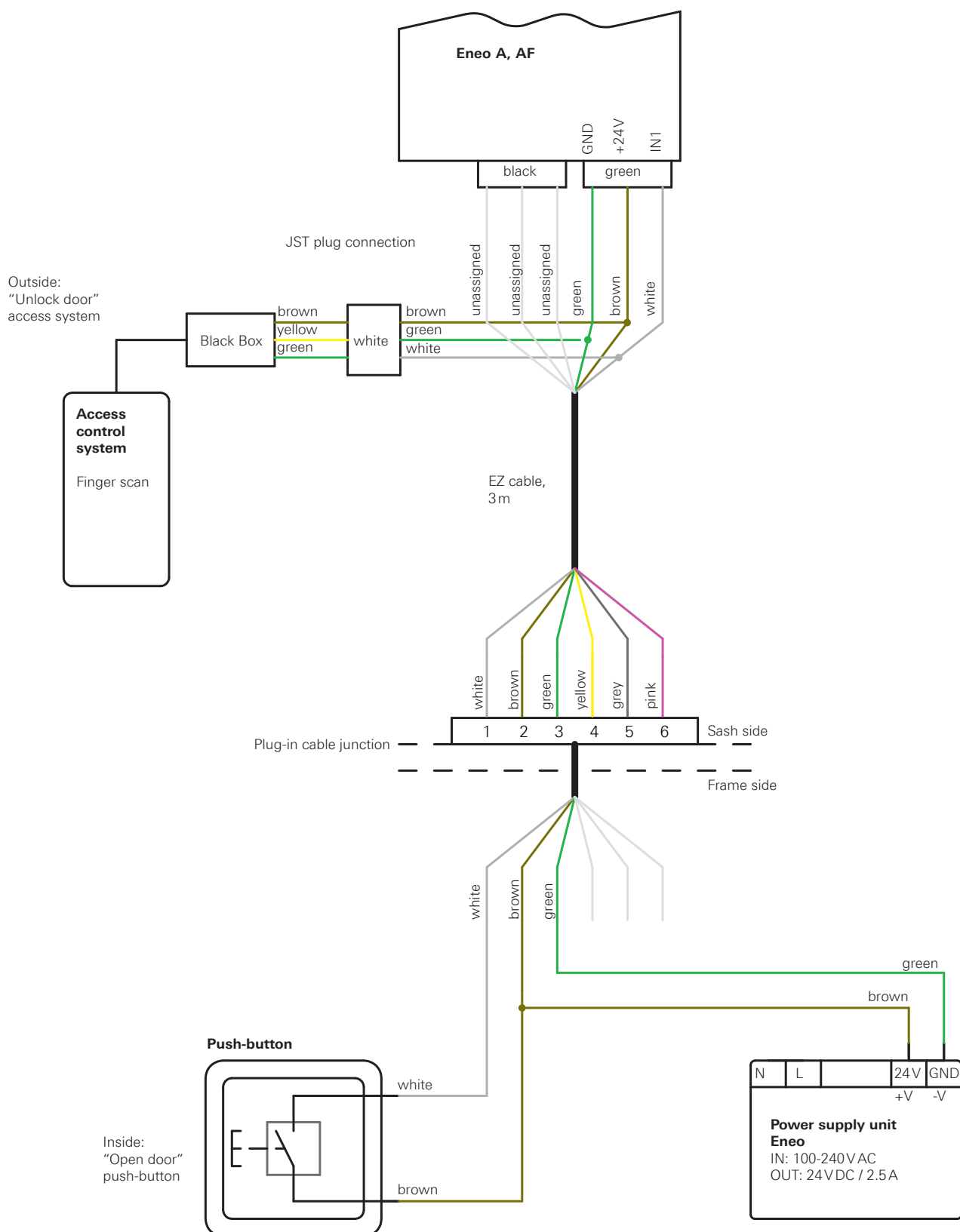
white:	IN1 / input 1 (OPEN)
brown:	+24V
green:	GND
yellow:	unassigned
grey:	unassigned
pink:	unassigned





#### INFO!

A potential-free contact can be used instead of an intercom.



#### Finger scan cable assignment

(between JST connector and Black Box)

brown: +24V  
yellow: GND  
green: control (OPEN)

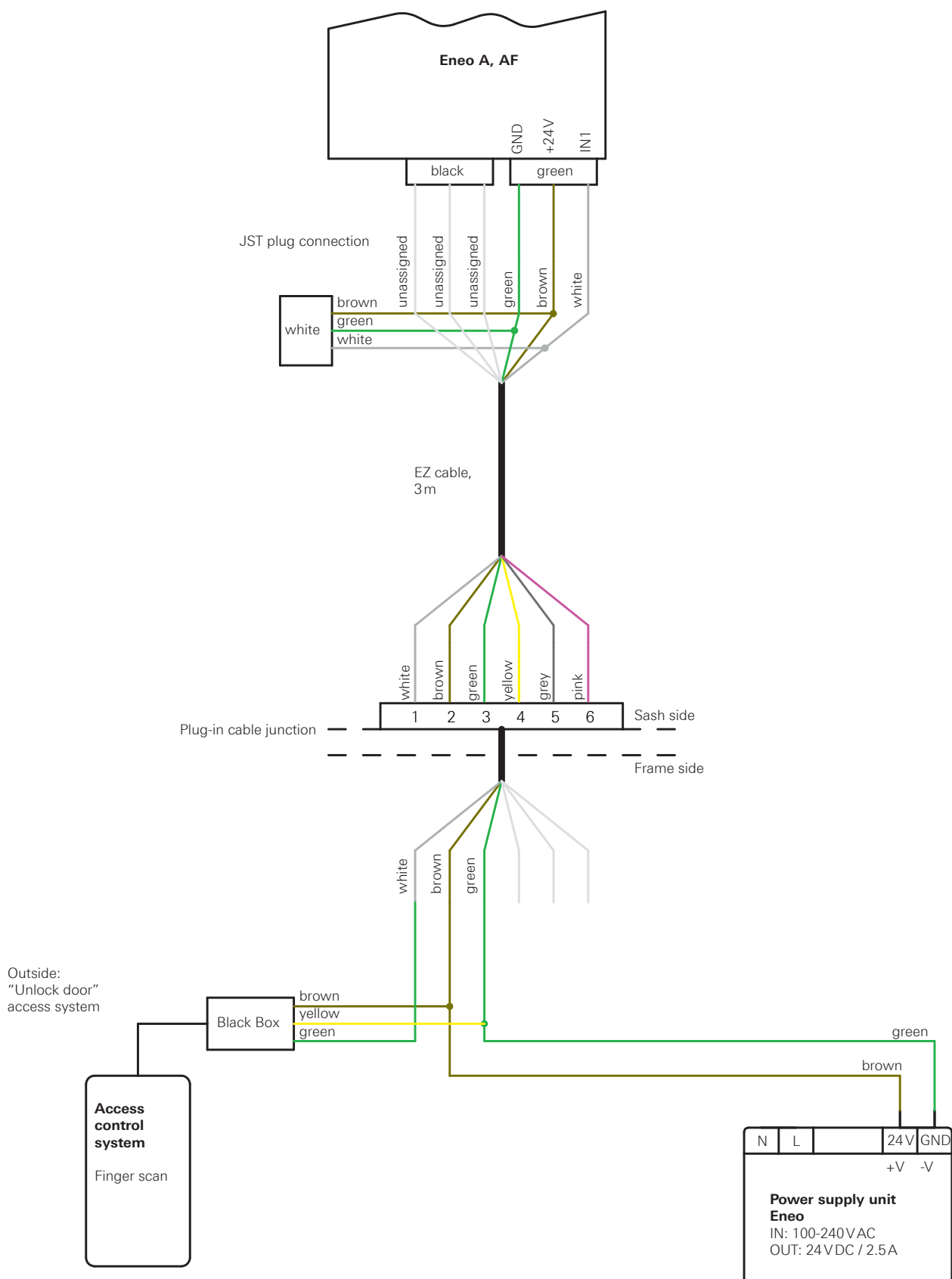
#### Connector / cable assignment

white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2  
grey: unassigned  
pink: unassigned

## Connection diagrams

### Eneo A and AF

Finger scan – on the frame



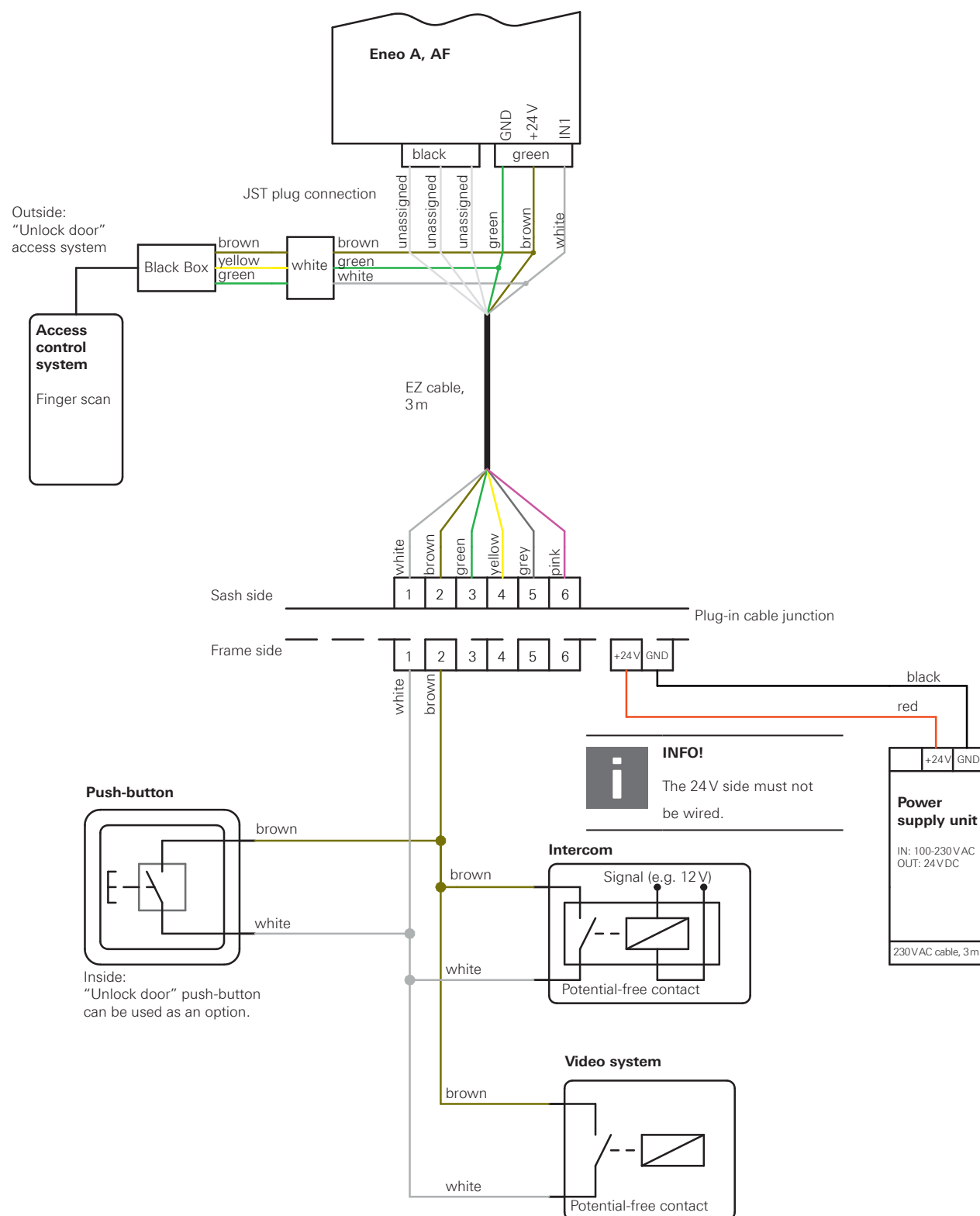
#### Finger scan cable assignment

(between JST connector and Black Box)

brown: +24V  
yellow: GND  
green: control (OPEN)

#### Connector / cable assignment

white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2  
grey: unassigned  
pink: unassigned



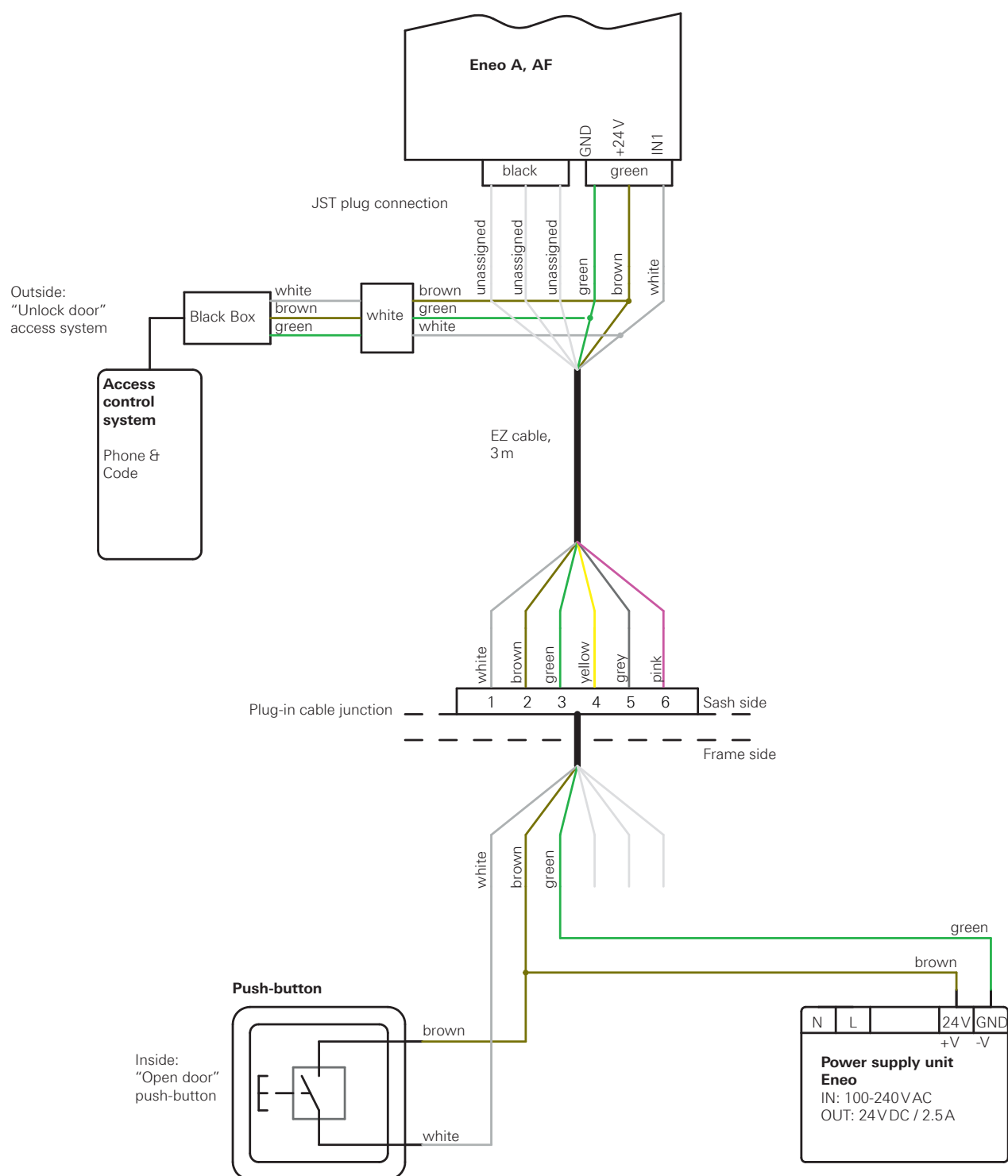
**Finger scan cable assignment**  
(between JST connector and Black Box)  
brown: +24V  
yellow: GND  
green: control (OPEN)

**Connector / cable assignment**  
white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2  
grey: unassigned  
pink: unassigned

## Connection diagrams

### Eneo A and AF

Phone & Code – on the sash



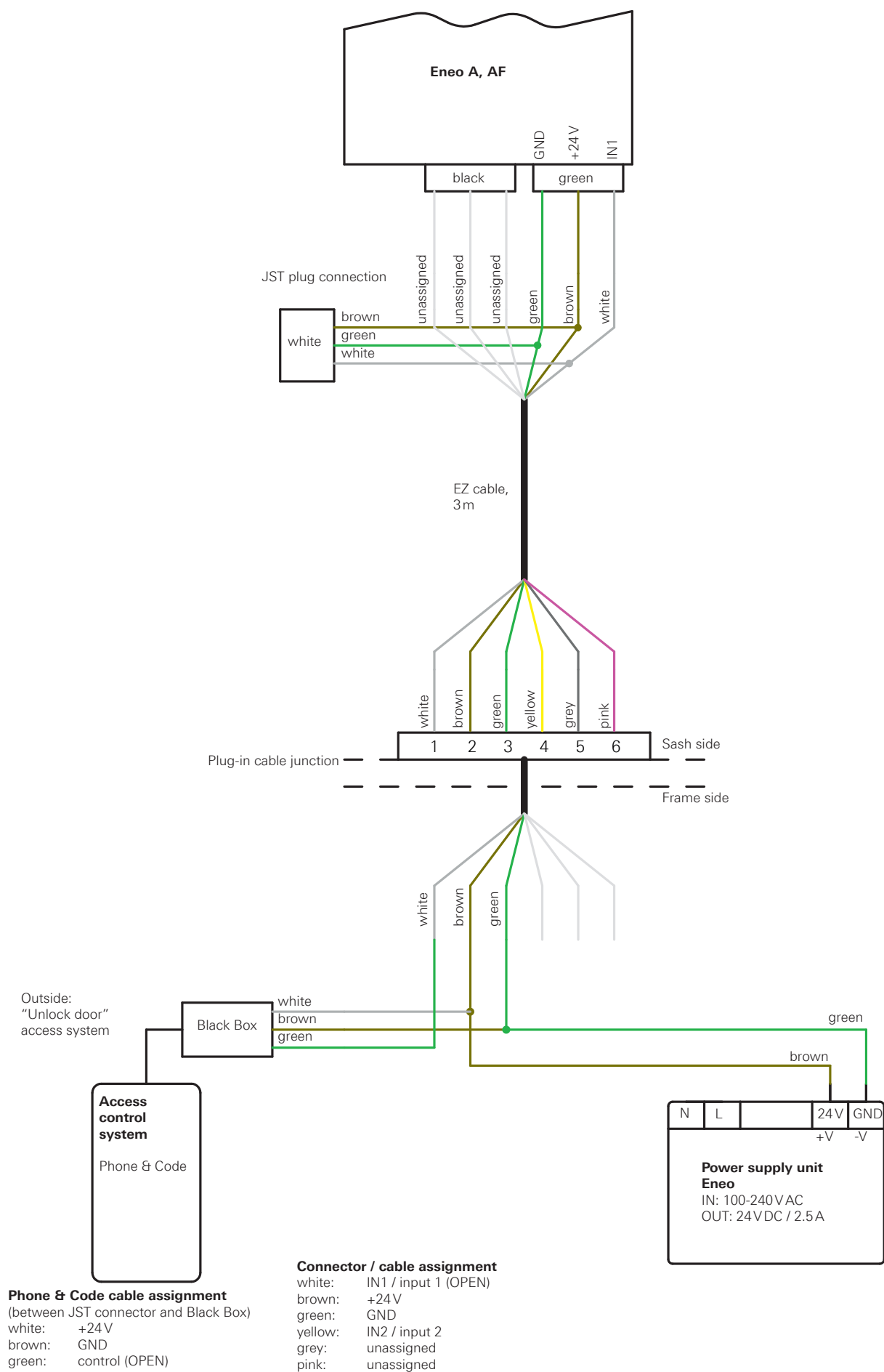
#### Phone & Code cable assignment

(between JST connector and Black Box)

white:	+24V
brown:	GND
green:	control (OPEN)

#### Connector / cable assignment

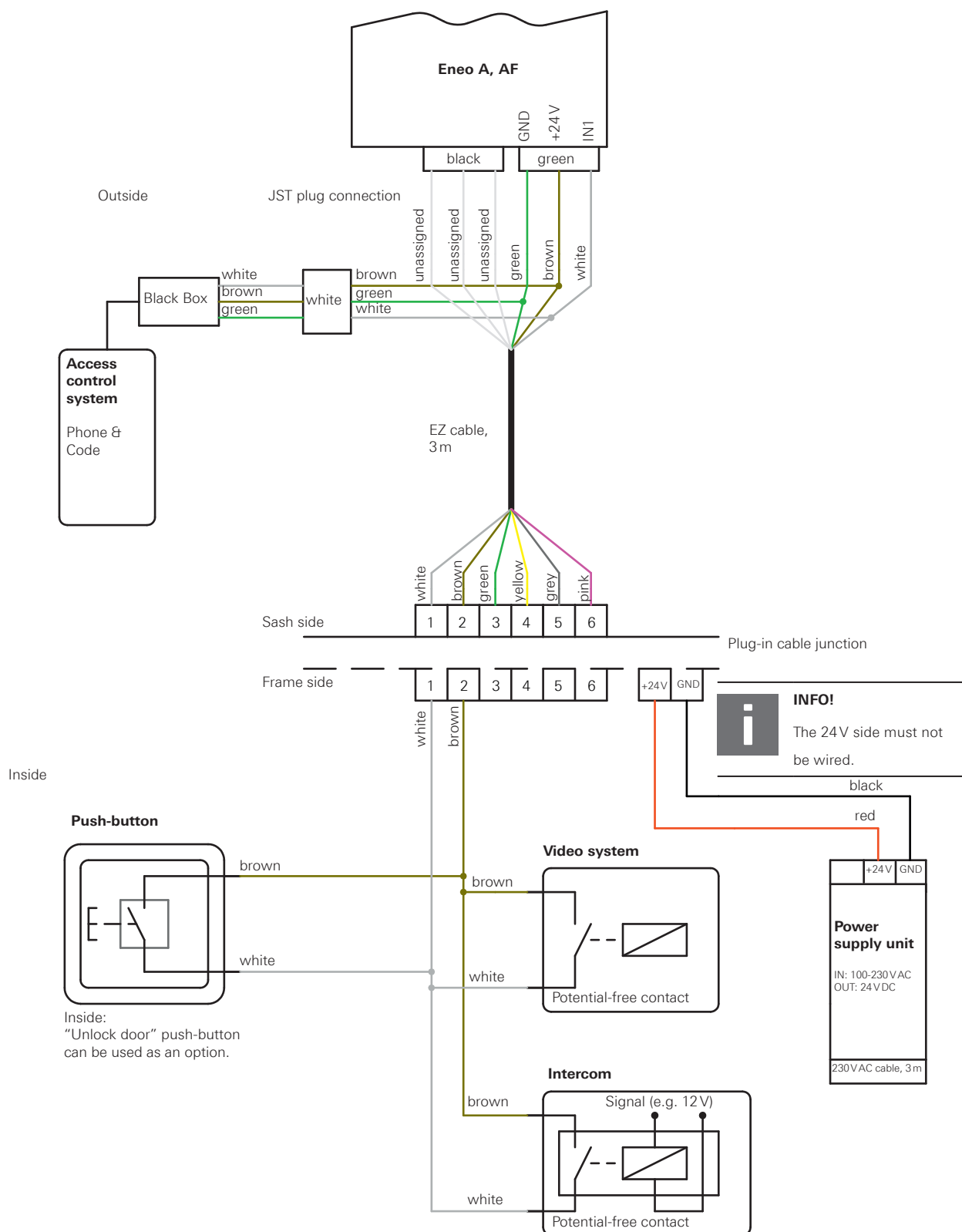
white:	IN1 / input 1 (OPEN)
brown:	+24V
green:	GND
yellow:	IN2 / input 2
grey:	unassigned
pink:	unassigned



## Connection diagrams

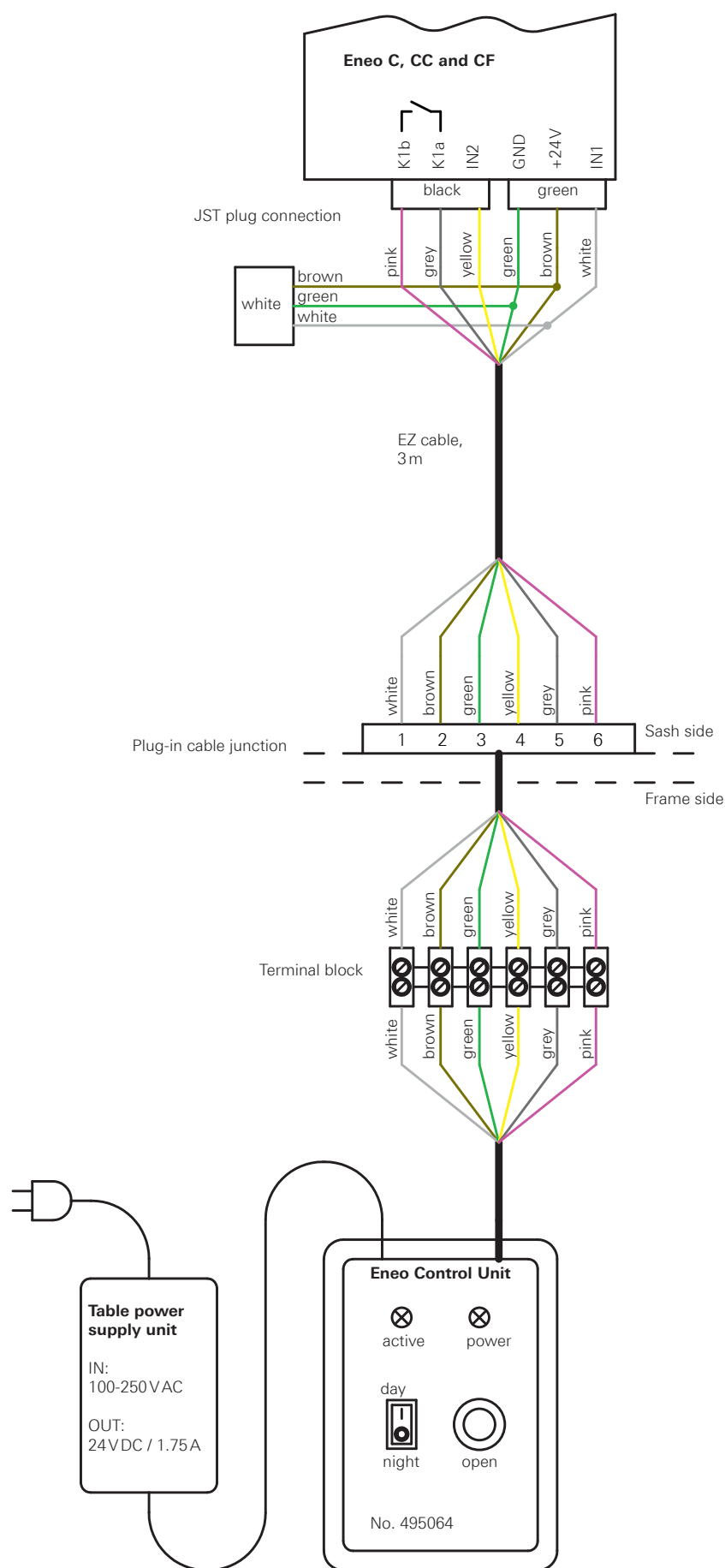
### Eneo A and AF

Phone & Code, cable junction with built-in power supply unit, intercom, video system



**Phone & Code cable assignment**  
(between JST connector and Black Box)  
white: +24V  
brown: GND  
green: control (OPEN)

**Connector / cable assignment**  
white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2  
grey: unassigned  
pink: unassigned



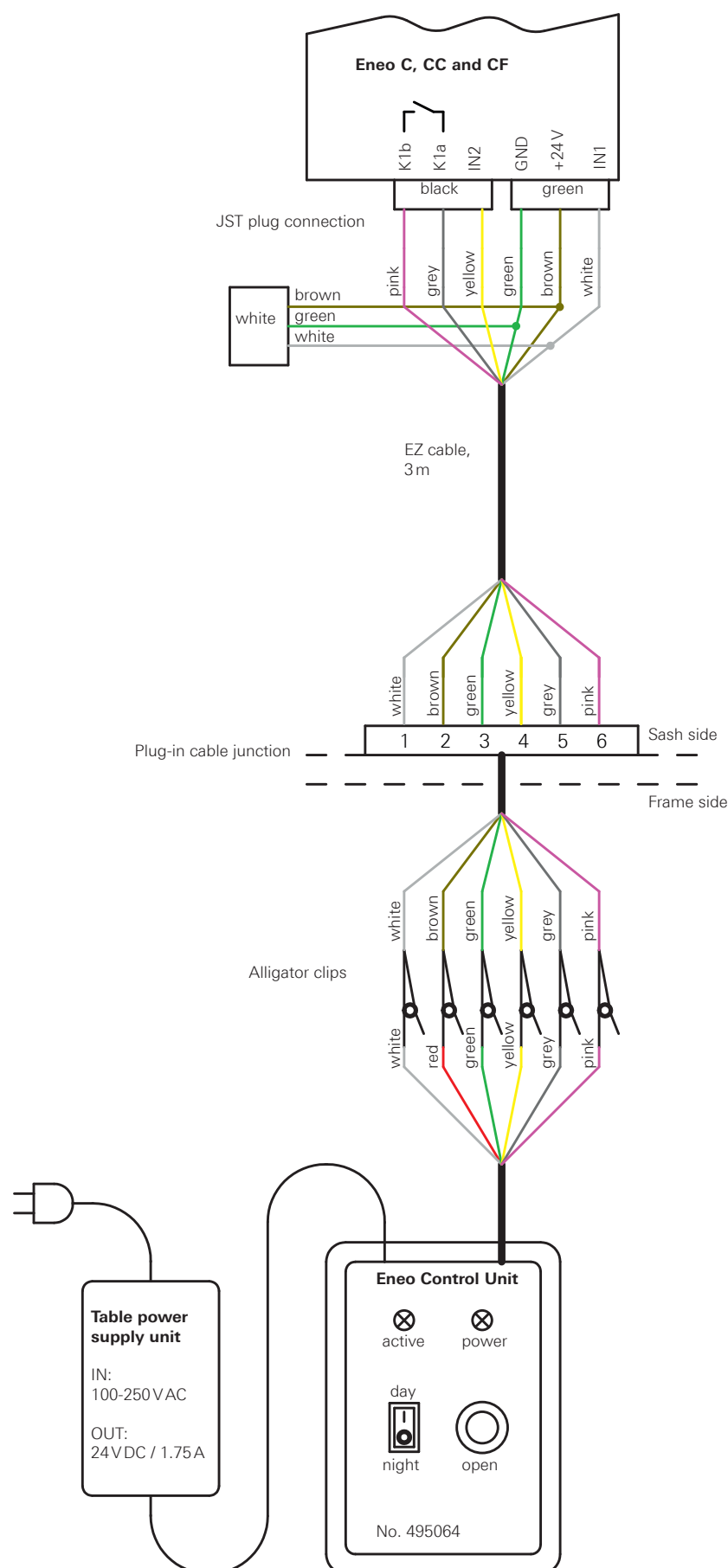
#### Connector / cable assignment

white:	IN1 / input 1 (OPEN)
brown:	+24V
green:	GND
yellow:	IN2 / input 2 (day/night changeover switch)
grey:	K1a pot.-free contact
pink:	K1b pot.-free contact

## Connection diagrams

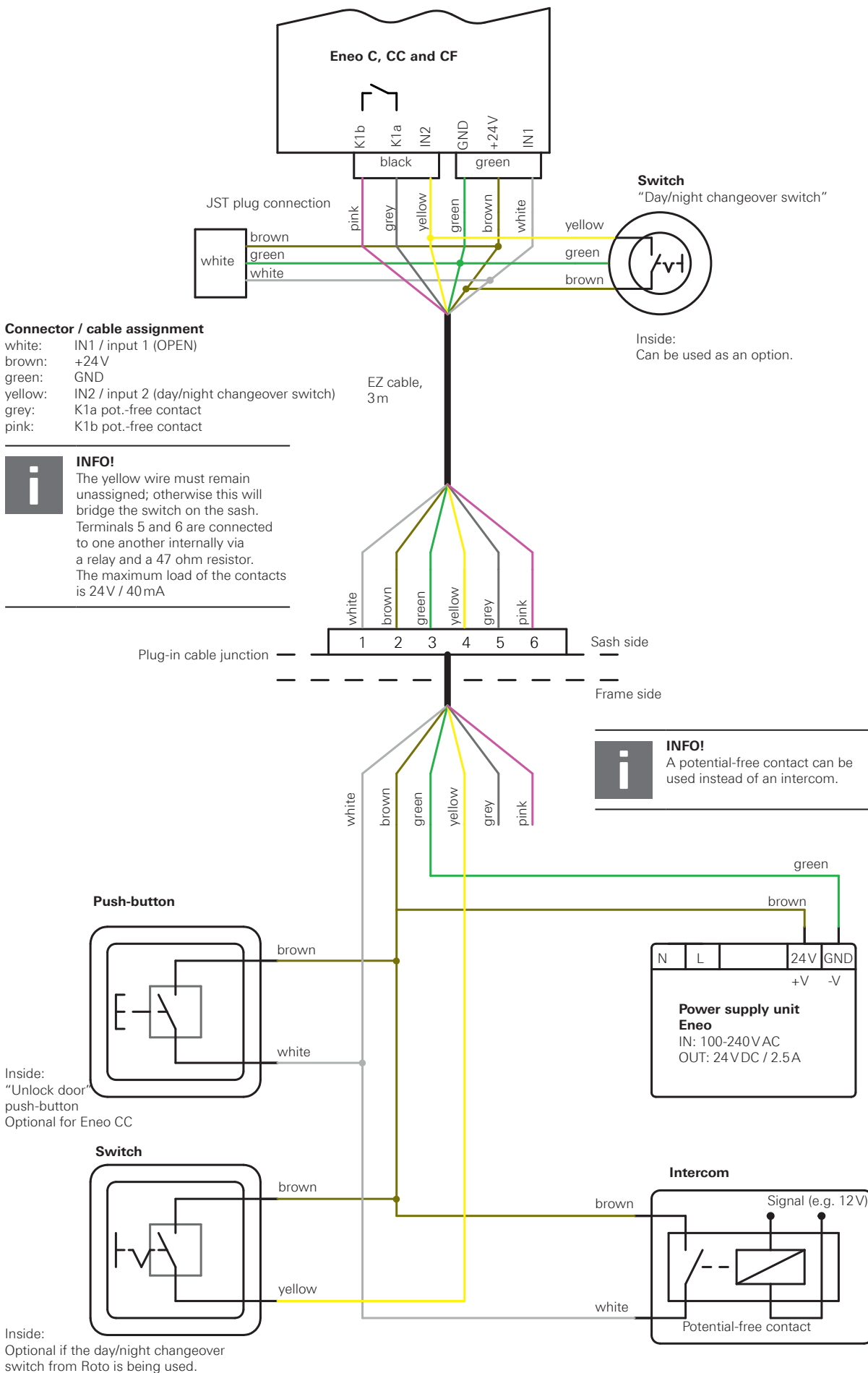
### Eneo C, CC and CF

Eneo Control Unit with alligator clips



#### Connector / cable assignment

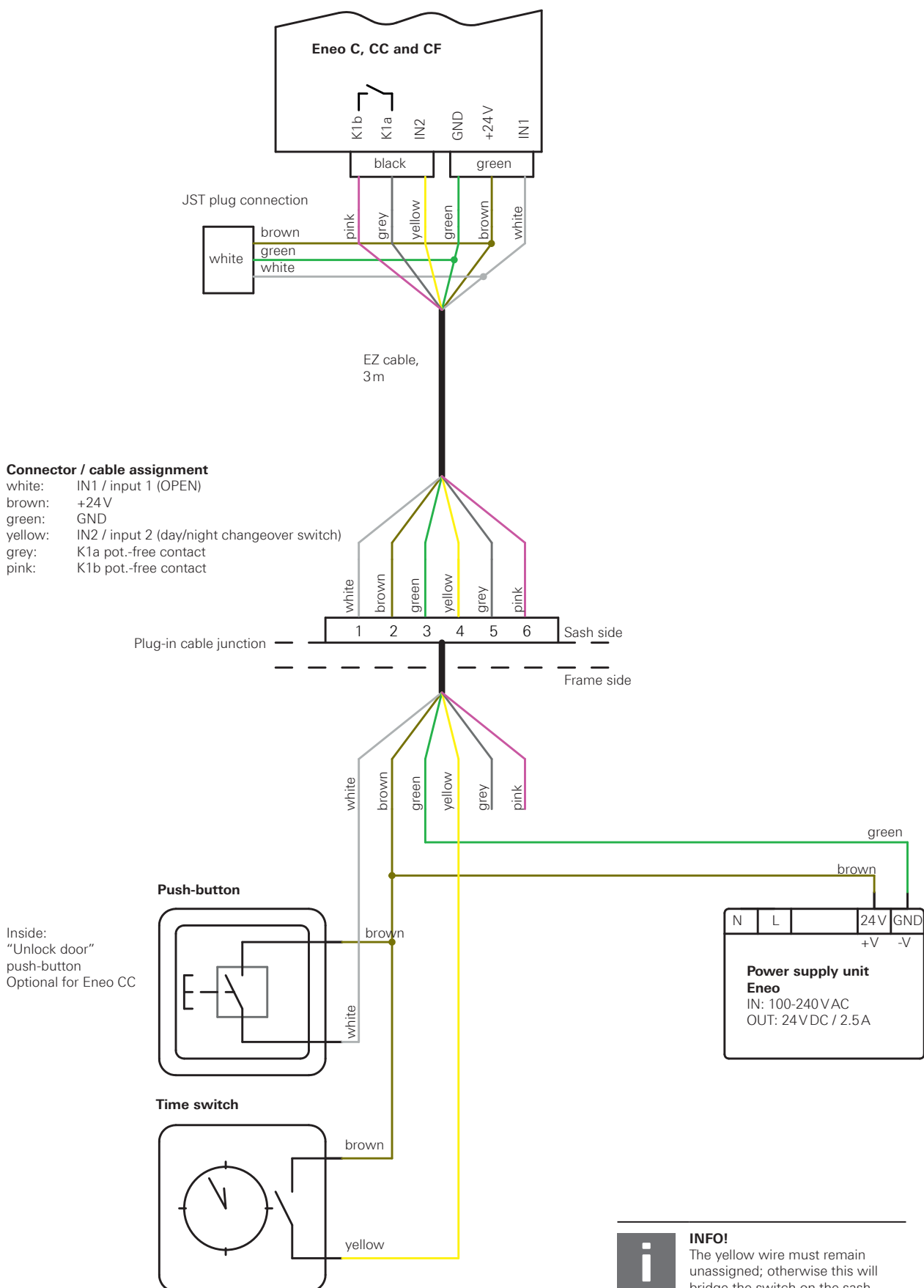
white:	IN1 / input 1 (OPEN)
brown:	+24V
green:	GND
yellow:	IN2 / input 2 (day/night changeover switch)
grey:	K1a pot.-free contact
pink:	K1b pot.-free contact



## Connection diagrams

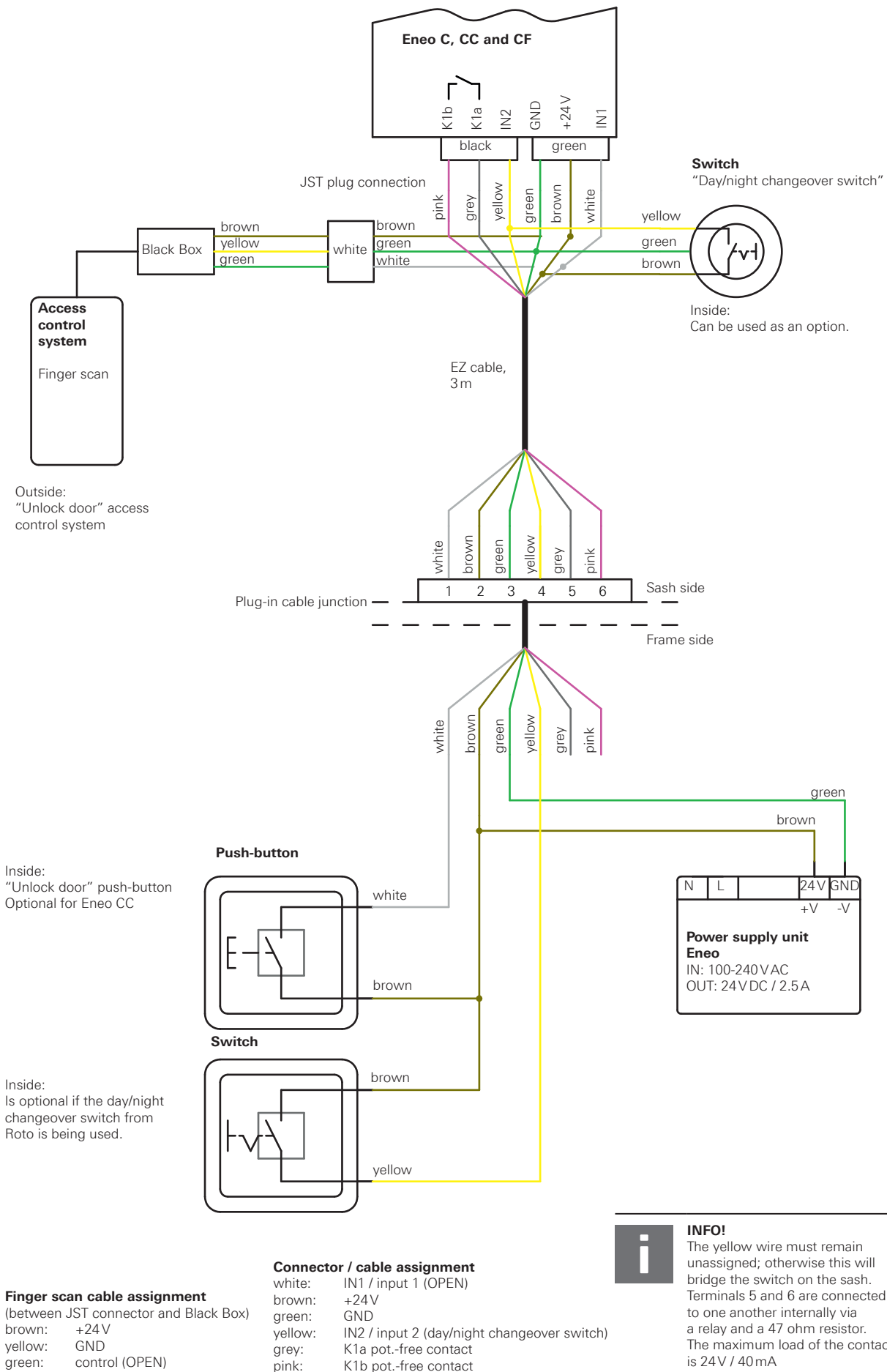
### Eneo C, CC and CF

#### Time switch



#### INFO!

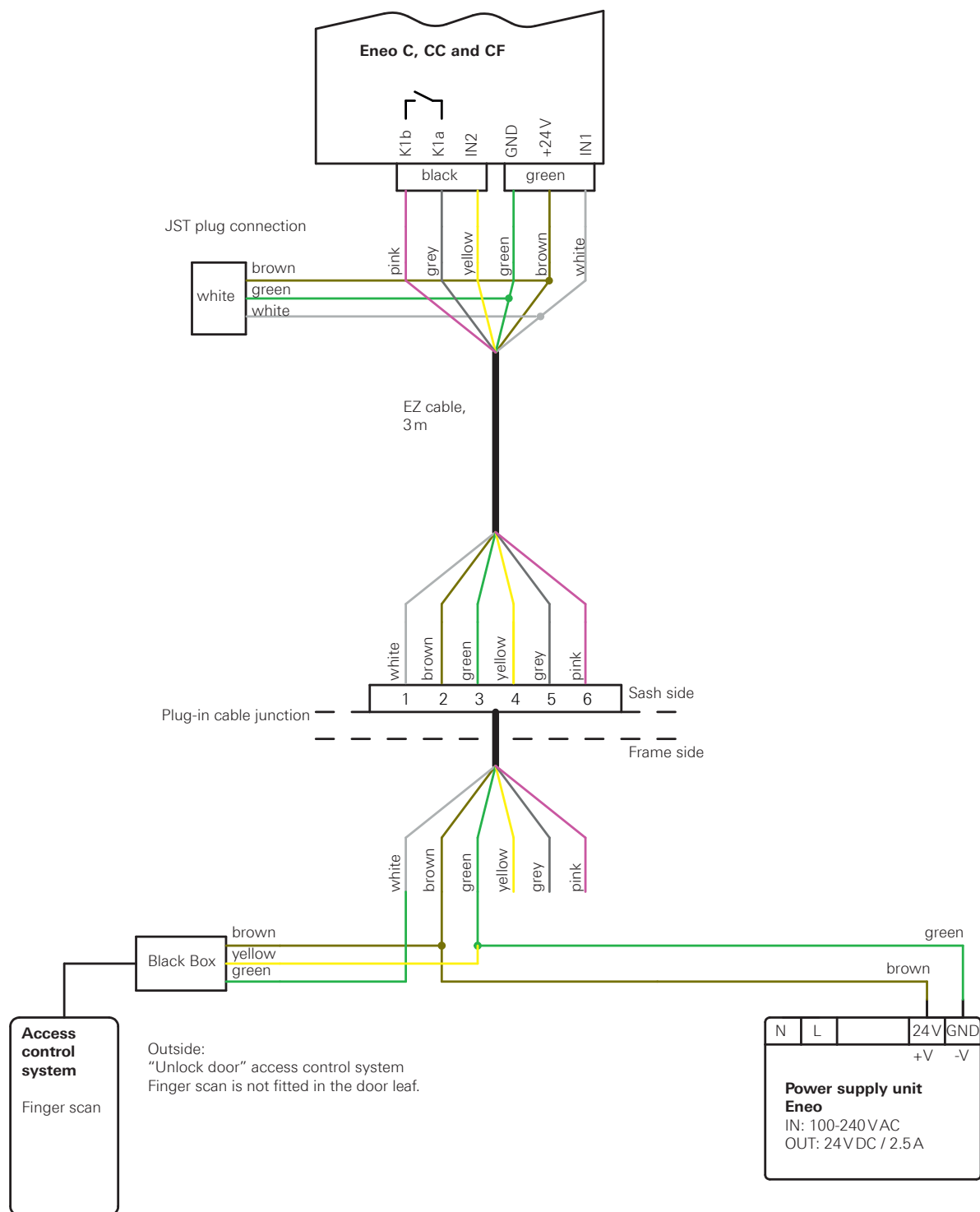
The yellow wire must remain unassigned; otherwise this will bridge the switch on the sash. Terminals 5 and 6 are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24V / 40mA



## Connection diagrams

### Eneo C, CC and CF

Finger scan – on the frame



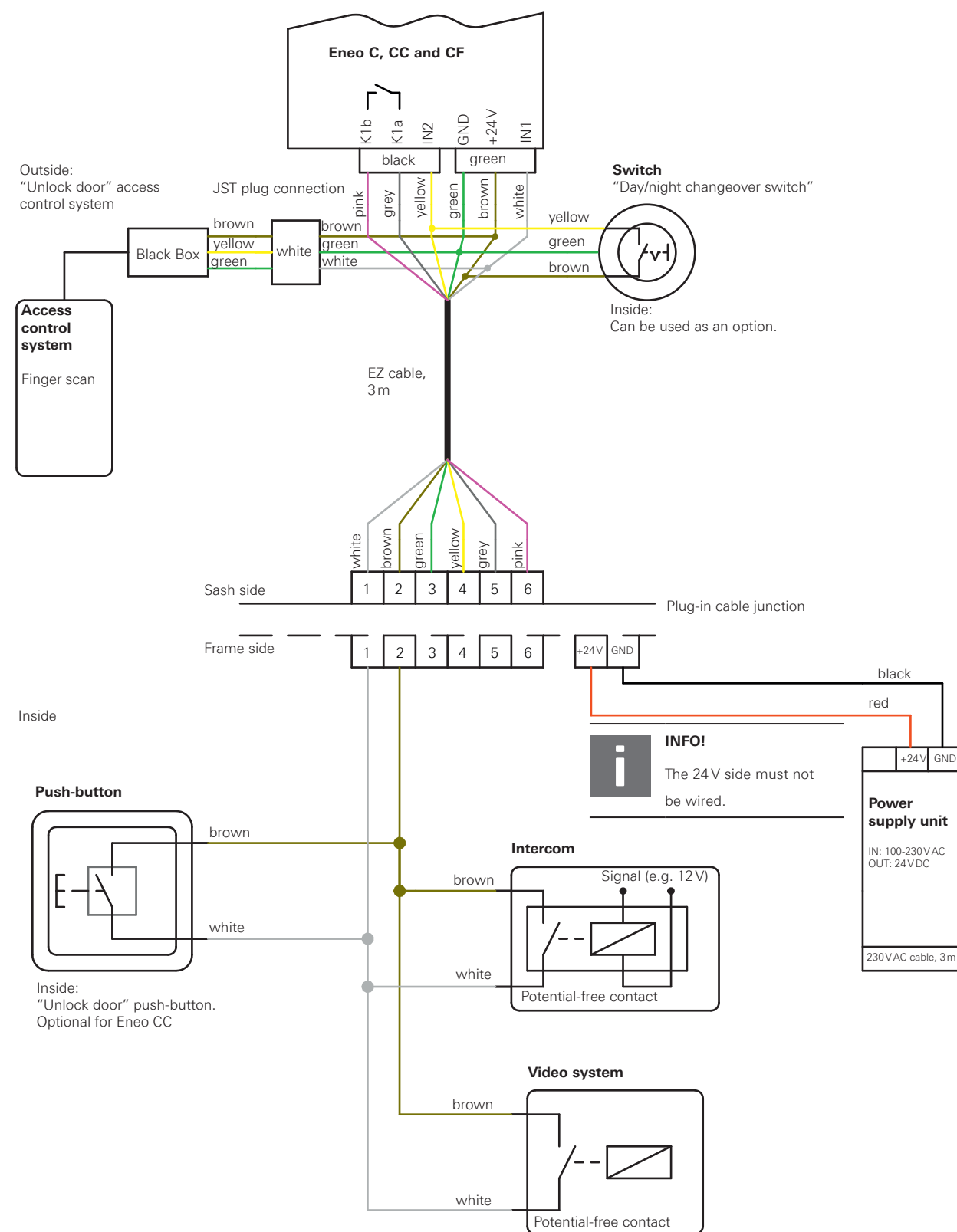
#### Finger scan cable assignment

(between JST connector and Black Box)

brown: +24V  
yellow: GND  
green: control (OPEN)

#### Connector / cable assignment

white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2 (day/night changeover switch)  
grey: K1a pot.-free contact  
pink: K1b pot.-free contact



**Finger scan cable assignment**  
(between JST connector and Black Box)  
brown: +24V  
yellow: GND  
green: control (OPEN)

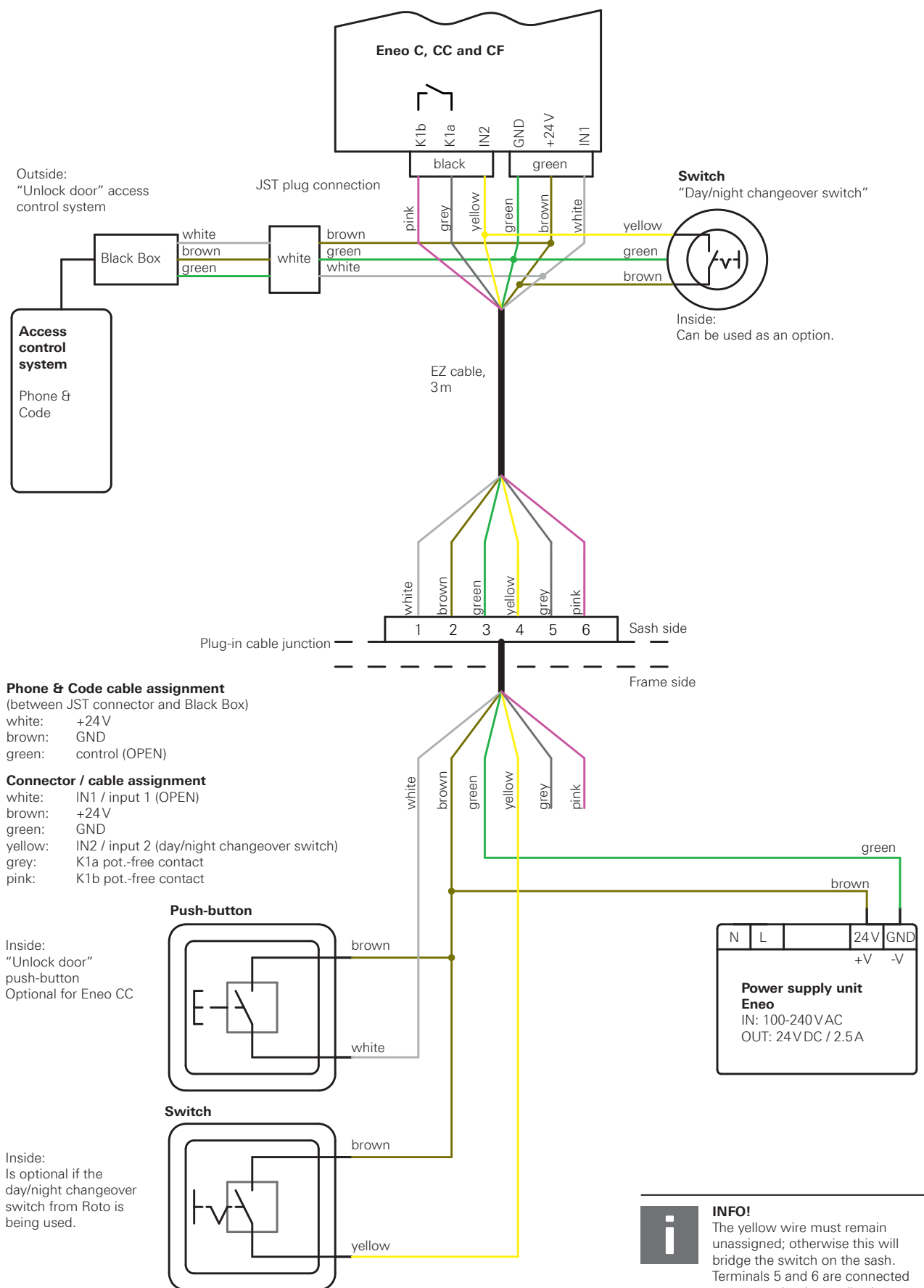
**Connector / cable assignment**  
white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2 (day/night changeover switch)  
grey: K1a pot.-free contact  
pink: K1b pot.-free contact

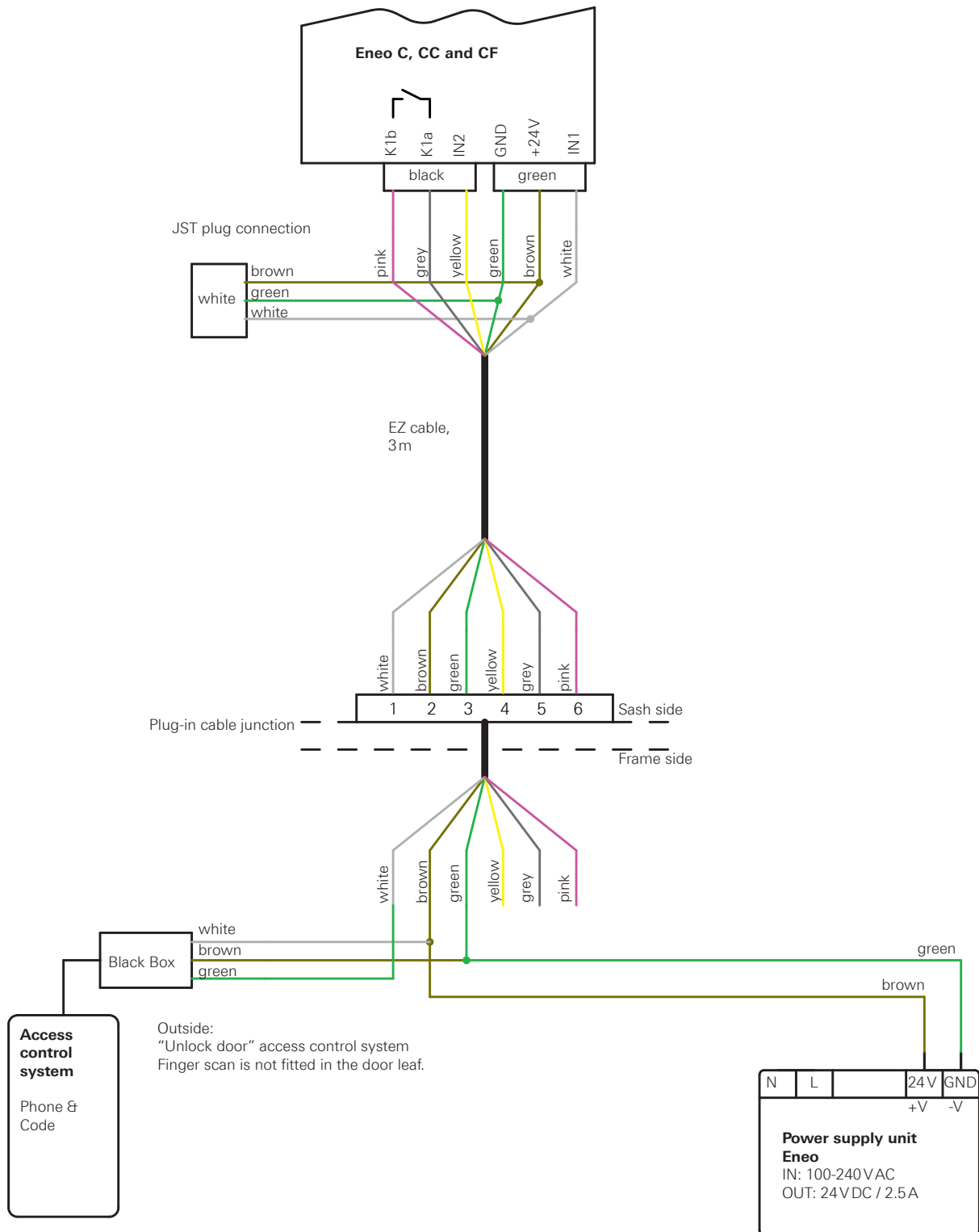
**INFO!**  
The yellow wire must remain unassigned; otherwise this will bridge the switch on the sash. Terminals 5 and 6 are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24V / 40mA

## Connection diagrams

### Eneo C, CC and CF

Phone & Code – on the sash





#### Phone & Code cable assignment

(between JST connector and Black Box)

white: +24V  
brown: GND  
green: control (OPEN)

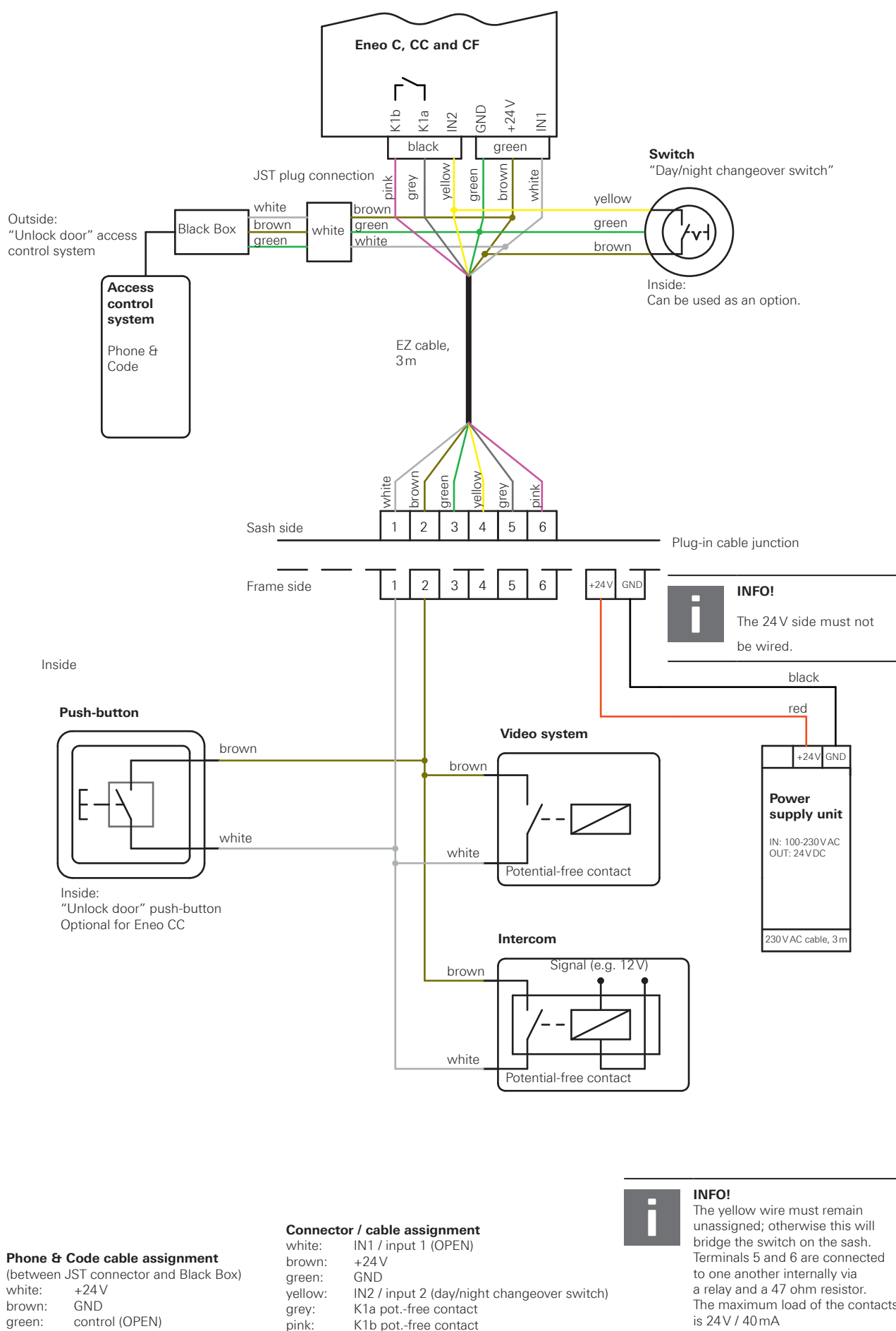
#### Connector / cable assignment

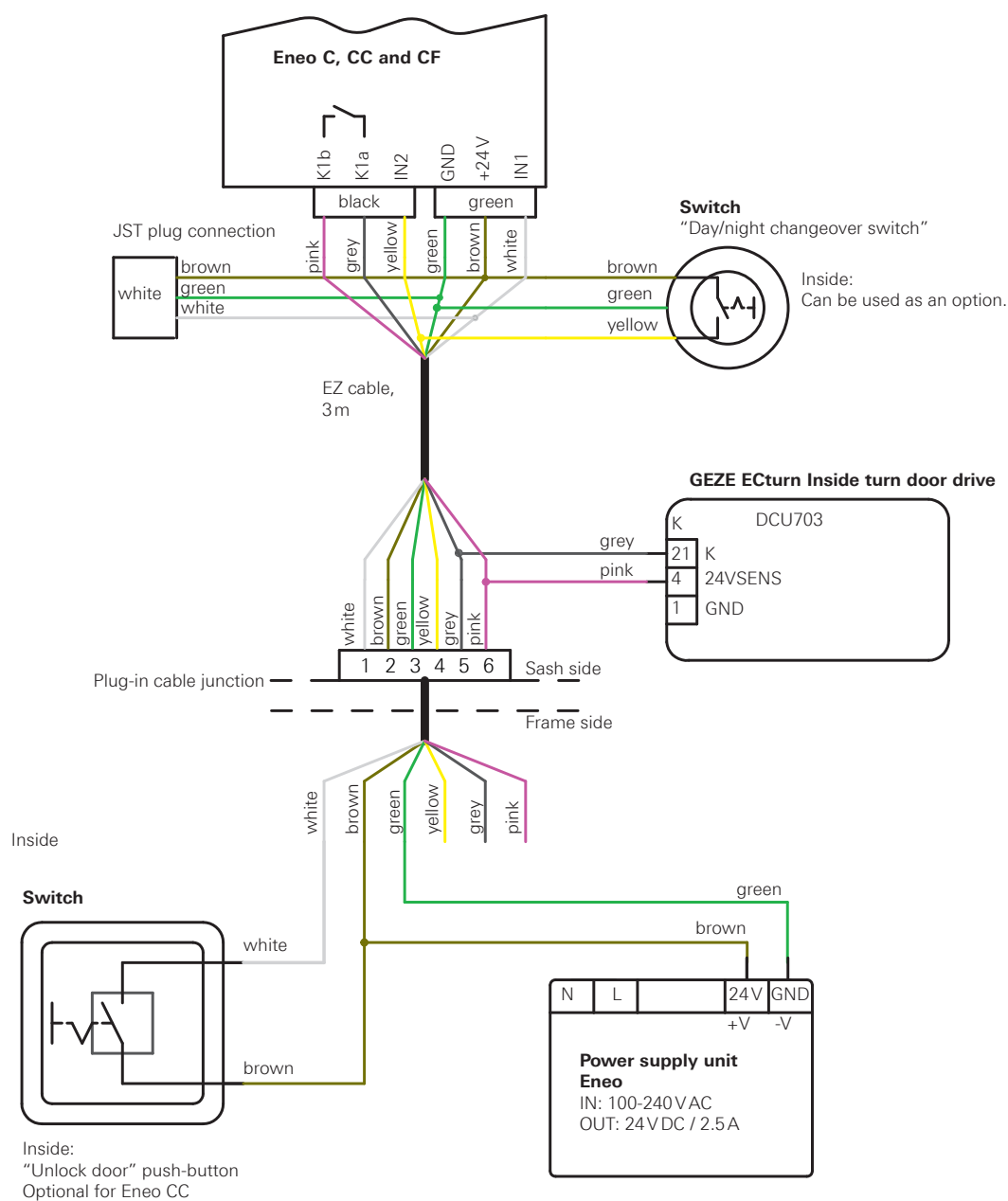
white: IN1 / input 1 (OPEN)  
brown: +24V  
green: GND  
yellow: IN2 / input 2 (day/night changeover switch)  
grey: K1a pot.-free contact  
pink: K1b pot.-free contact

## Connection diagrams

### Eneo C, CC and CF

Phone & Code, cable junction with built-in power supply unit, intercom, video system





#### Connector / cable assignment

white:	IN1 / input 1 (OPEN)
brown:	+24V
green:	GND
yellow:	IN2 / input 2 (day/night changeover switch)
grey:	K1a pot.-free contact
pink:	K1b pot.-free contact



#### INFO!

The yellow wire must remain unassigned; otherwise this will bridge the switch on the sash. Terminals 5 and 6 are connected to one another internally via a relay and a 47 ohm resistor. The maximum load of the contacts is 24V / 40mA.



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