Manuals+ — User Manuals Simplified.

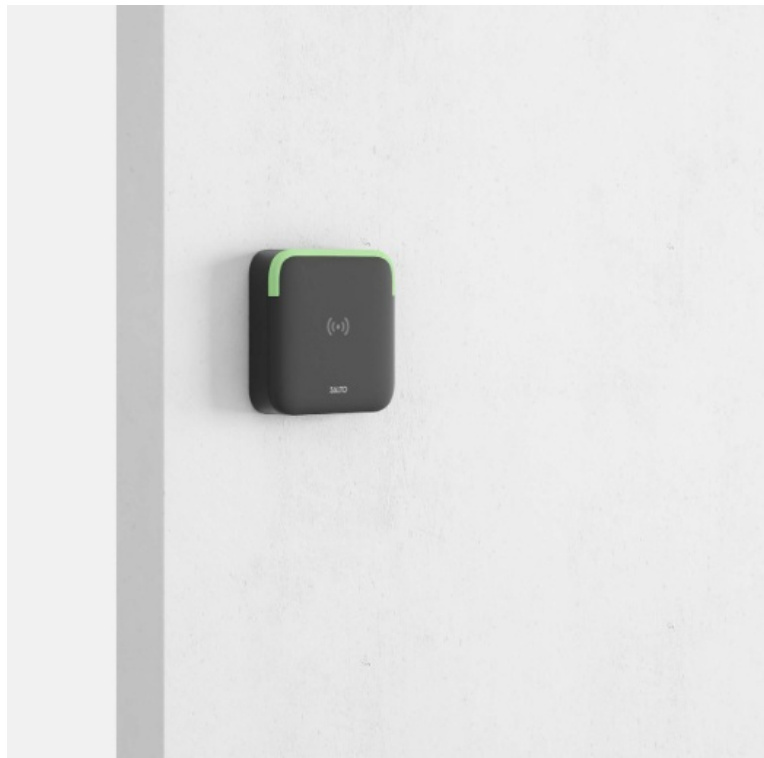# SALTO Systems WRDx0E4 Series Design XS Reader Installation Guide

Contents

SALTO Systems WRDx0E4 Series Design XS Reader

Product Information

Specifications:

- **Model:** WRDx0E4.. series, WRDx0E4..K series, WRDx0E4..V series
- **Dimensions:** 95.5mm x 22mm x 27mm
- **Installation Guide Languages:** D, F, NL, and Zh
- **Electrical Characteristics:** RFID frequency – 13.56 Mhz, Bluetooth Smart frequency – 2.445-2.483 Ghz
- **Power Consumption:** Reader – 150mA, Reader + Keyboard – 250mA
- **Cable Type:** UTP Cat5e 2 pairs (328ft/100m), UTP Cat5e 4 pairs AWG24 + SP224861/SP224895 (820ft/250m)

Product Usage Instructions

Installation

1. **Make sure you have the necessary tools**: PZ1 screwdriver (x4), TORX 10 screwdriver (x2).
2. **Select the appropriate installation guide language:** D, F, NL, or Zh.
3. Follow the installation steps provided in the respective installation guide for your language and model:
   - WRDx0E4.. series installation guide
   - WRDx0E4..K series installation guide
   - WRDx0E4..V series installation guide

Electrical Characteristics
Make sure to consider the following electrical characteristics:

- **Temperature:** WRD0B – WRD0BK (Min: -35°C, Max: +66°C), WRD0J – WRD0GK – WRD0JK (Min: -25°C, Max: +66°C)

- **Humidity:** 35% – 85%

RF Characteristics

The product operates at RFID frequency of 13.56 Mhz and Bluetooth Smart frequency of 2.445-2.483 Ghz.

Power Consumption

The power consumption of the product is as follows:

- **Reader:** 150mA
- **Reader + Keyboard:** 250mA

Note: The installer must take this data into account to dimension the CU42xx power supply. Readers are only for use with the SALTO Control Units.

Cable Type and Maximum Distances

The recommended cable types and maximum distances for the product are as follows:

- **Reader:** UTP Cat5e 2 pairs (328ft/100m)
- **Reader + Keyboard:** UTP Cat5e 4 pairs AWG24 + SP224861/SP224895 (820ft/250m)

SALTO recommends using one cable per wall reader. Twisted pairs AWG18 can also be used for longer distances (1312ft/400m).

FAQ

1. **Q: Can I use the reader with any SALTO Control Unit?**

    A: No, the readers are only compatible with the SALTO Control Units.

2. **Q: What are the dimensions of the XS Reader?**

    A: The dimensions of the XS Reader are 95.5mm x 22mm x 27mm.
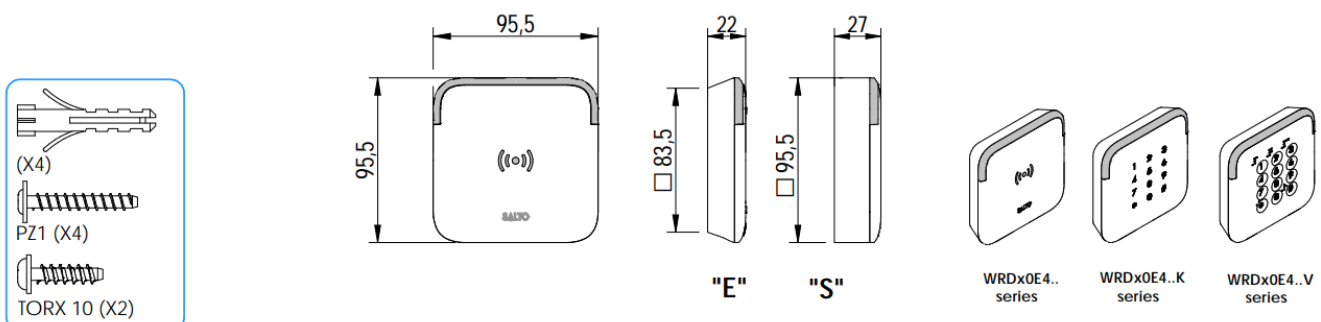
3. **Q: What is the power consumption of the Reader + Keyboard?**

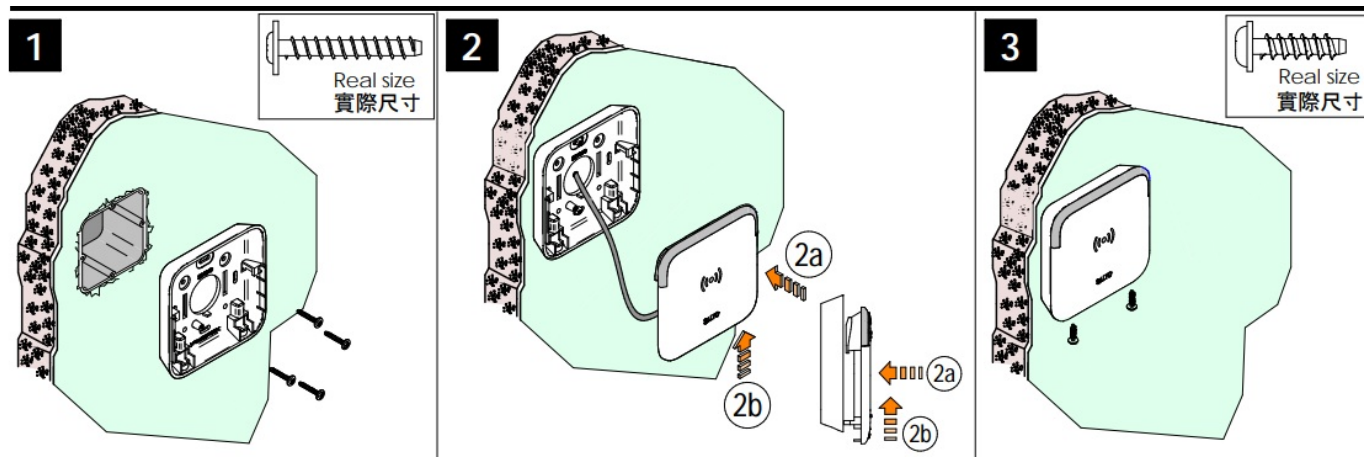   A: The power consumption of the Reader + Keyboard is 250mA.

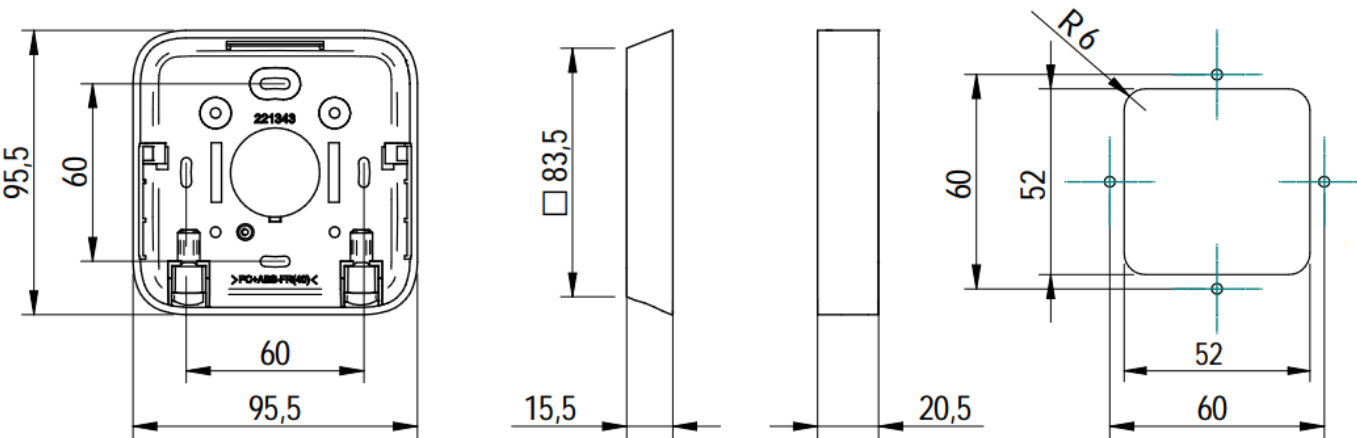# Installation guide Design XS Reader

Card reader installation guide

- WRDx0E4.. series
- WRDx0E4..K series
- WRDx0E4..V series

Installation

Gang electrical standard box

Template

Electrical characteristics

Min.		Max.	Unit
Temperature WRD0B – WRD0BK	-35	+66	°C
	-31	+150	°F
Temperature WRD0J – WRD0GK – WRD0JK	-25	+66	°C
	-13	+150	°F
Humidity	35	85 %	

Operation conditions

|	Min	Cen.	Max	Unit
RFID frequency		13.56		Mhz
Bluetooth Smart frequency	2.4	2.445	2.483	Ghz

Power Consumption Note 1

- **Note 1**: Installer must take this data into account to dimension the CU42xx power supply. Readers only for use with the SALTO Control Units.
- SALTO recommends to use one cable per wall reader.

	Min	Max	Unit
Reader		150	mA
Reader+Keyboard		250	mA

Cable type and mx. distances

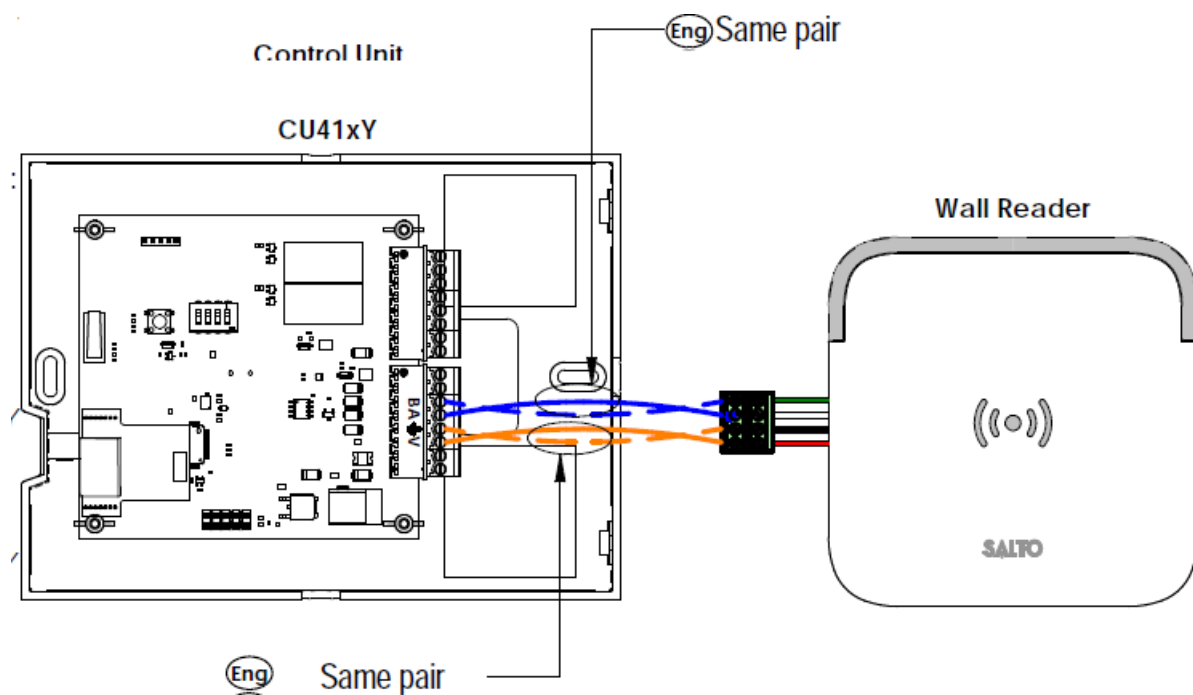| Cable type	Reader	Reader + Keyboard
UTP Cat5e 2 pairs AWG24	328ft 100m	196ft 60m
UTP Cat5e 4 pairs AWG24 + SP224861/SP224895	820ft 250m	492ft 1500m
Twisted pairs AWG18 Note2	1312ft 400m	918ft 280m

Installation example: CU42xx:
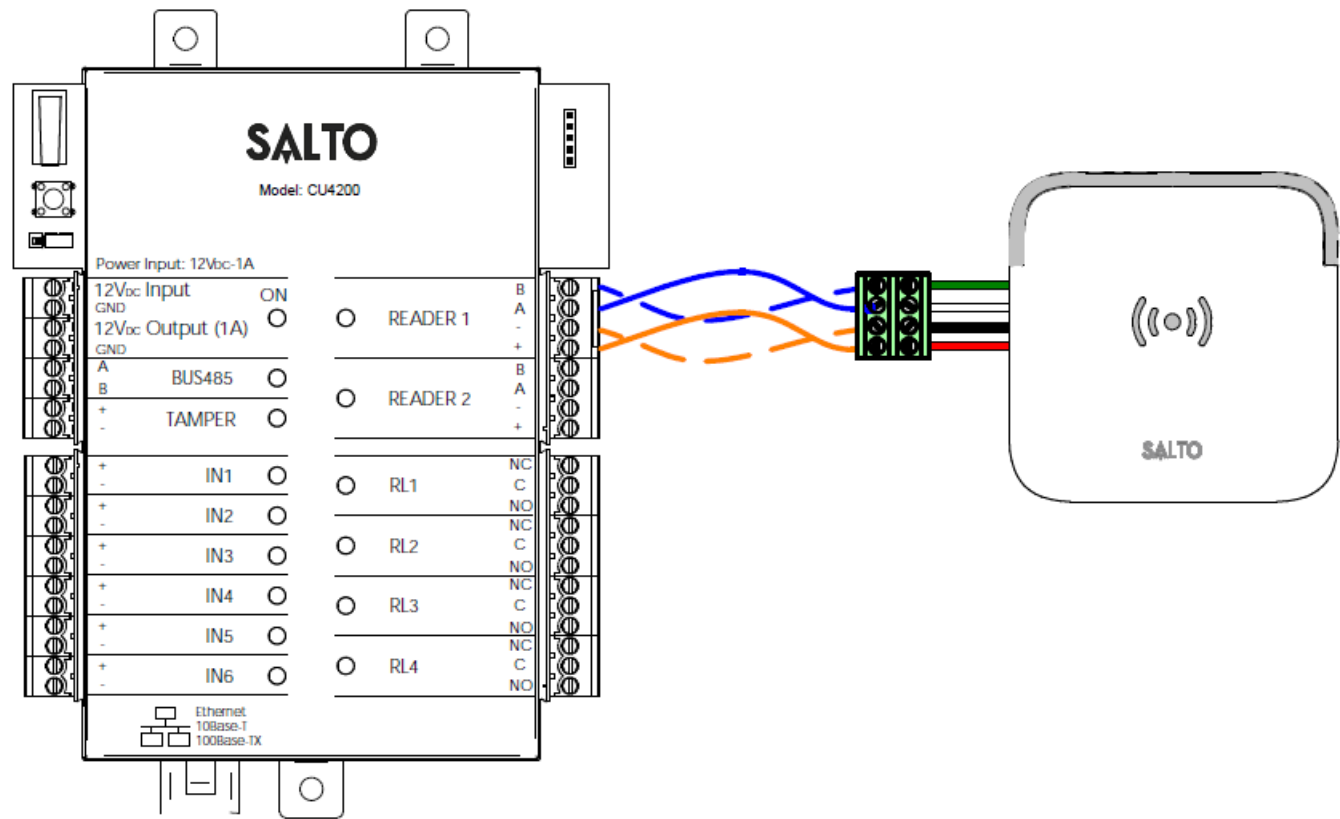
Cable connection

Eng					Ned	Sve	
B	Green	Verde	Vert		Groen		
A	White	Blanco	Blanc	Weiss	Wit		
	Black	Negro	Noir	Schwarz	Zwart		
+V	Red	Rojo	Rouge	Rot	Rood		

Installation example CU42xx with RJ45:

Minimum distance between readers 20in (50cm).
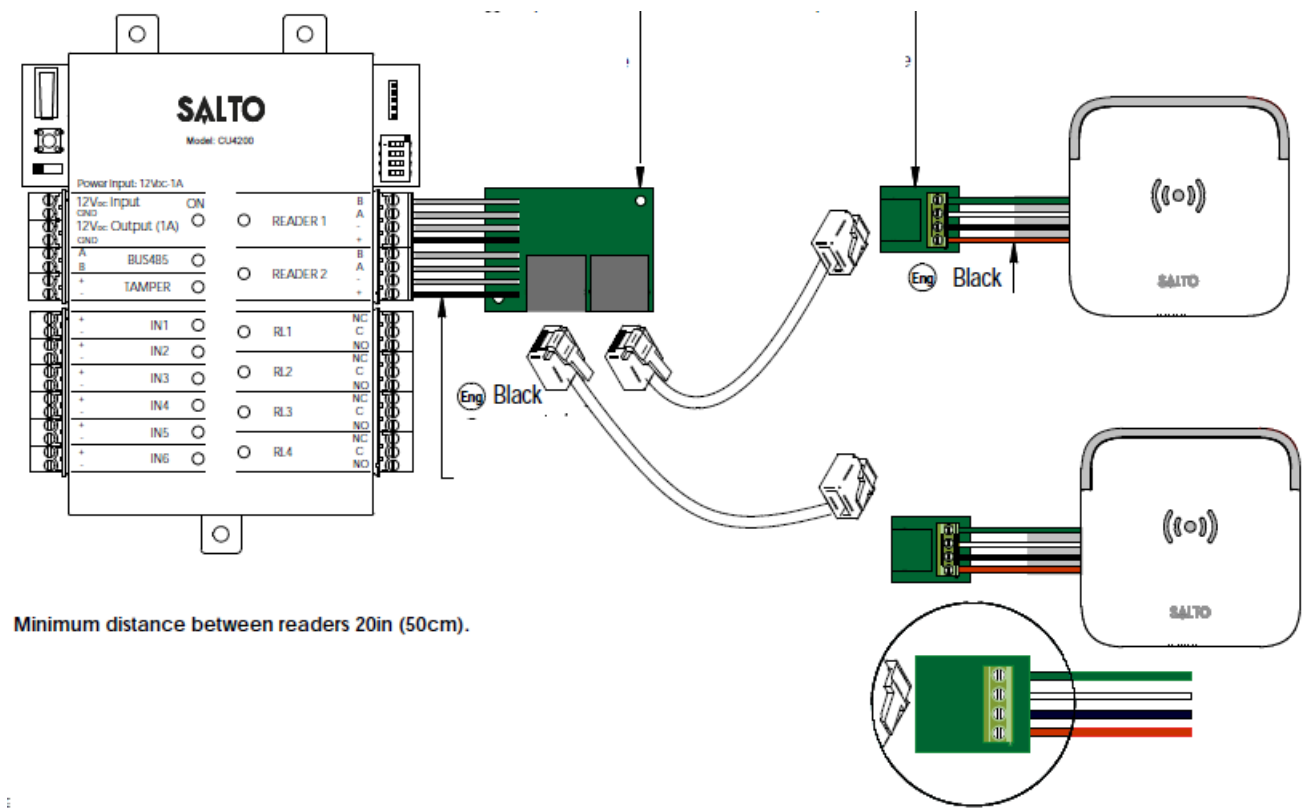
Minimum distance between readers 20in (50cm).

Installation example: CU41xY:

Control Unit

CU41xY

(Eng) Same pair

Wall Reader

(Eng) Same pair

Installation example CU41xY with RJ45

Optional — SP224895

Optional — SP224895

Control Unit

CU41xY

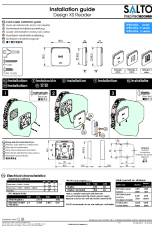Red (Eng)

Red (Eng)

MIN. 50cm
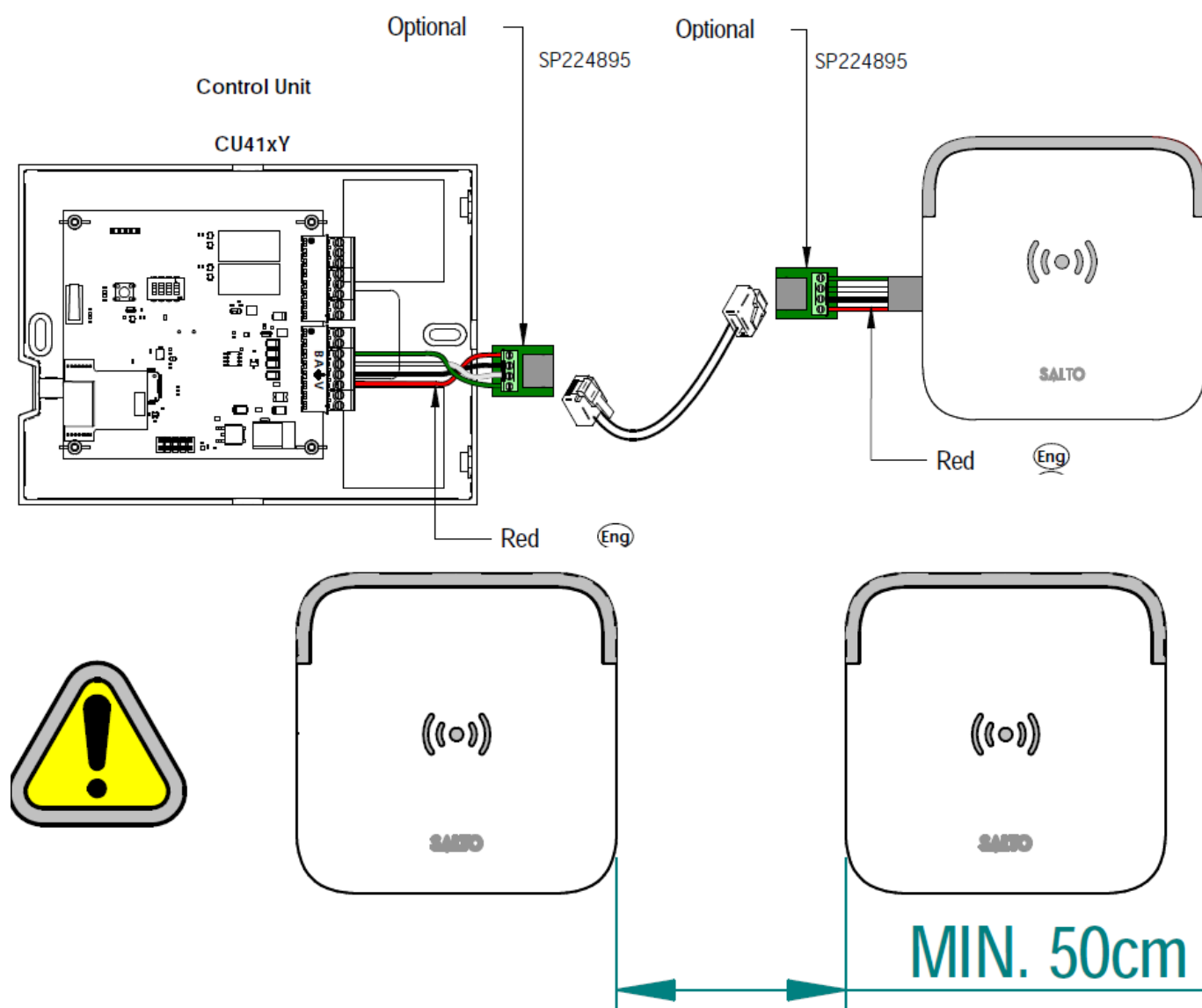
European view
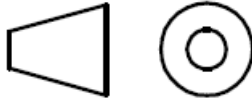
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Documents / Resources

SALTO Systems WRDx0E4 Series Design XS Reader [pdf] Installation Guide
WRDx0E4 Series Design XS Reader, WRDx0E4 Series, Design XS Reader, XS Reader, Reader

References

- **User Manual**