SALTO NRF30 BLUEnet Node Wireless Hardware Installation Guide

Contents

SALTO

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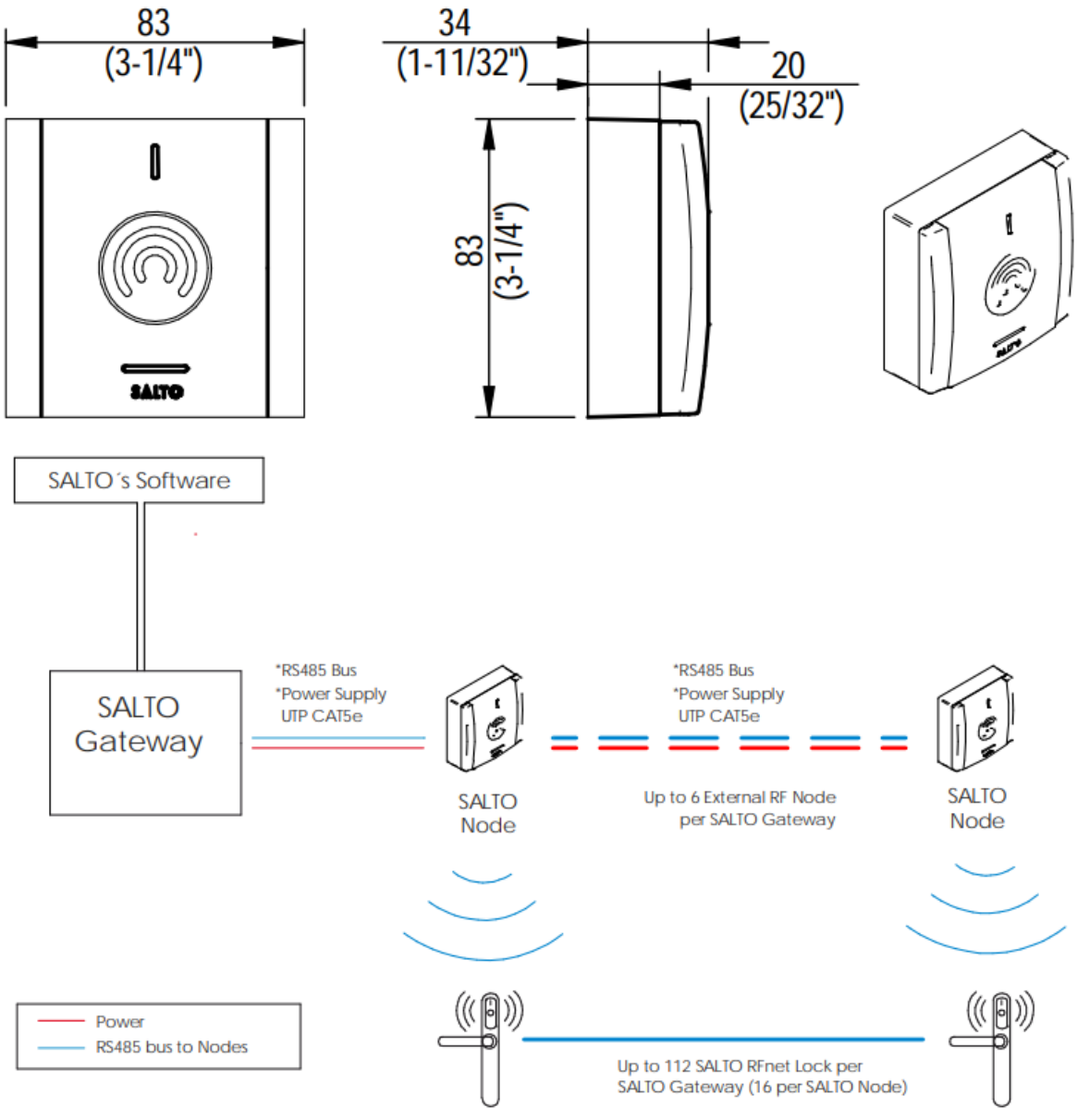
Installation guide



- The BLUEnet Node and RFnet Node are part of SALTO wireless system. They work as a bridge, with the SALTO Gateway, between SALTO's access control software and wireless locks.

Electrical characteristic

Operation conditions

Min		Typ	Max	Unit
Temperature	-20	25	70	ºC
Humidity	35		85	

SALTO RFnet Characteristics

Frequency Range	2400-2483.5 Mhz
Standard Indoor Radio Range	IEEE 802.15.4 10/15m
Max output power	5dBm

SALTO BLUEnet Characteristics

Frequency Range	2400-2483.5Mhz
RF Standard Indoor Radio Range	Bluetooth Low Energy 10m/15m*
Max output power	8dBm

Cable requirements

RS485 Connection (AB)	Generic twisted pair wire Note 1
Power Connection (Vdd)	24 AWG

Power Supply for SALTO RFnet

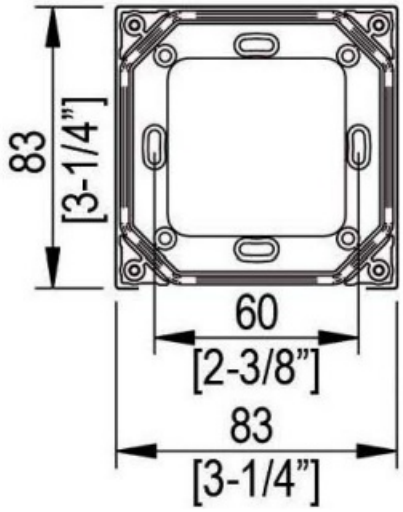
Min	Typ	Max	Unit
Input Voltage 7 Current consumption	12	28 45Note 2	V mA

Power Supply for BLUENET

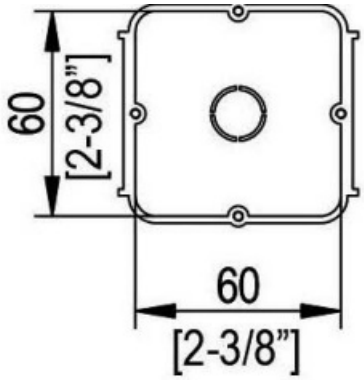
Min		Typ	Max	Unit
Input voltage	7	12	28	V
Current consumption RFNode			45 Note 2	m A
Current consumption RFNet			75 Note 2	m A

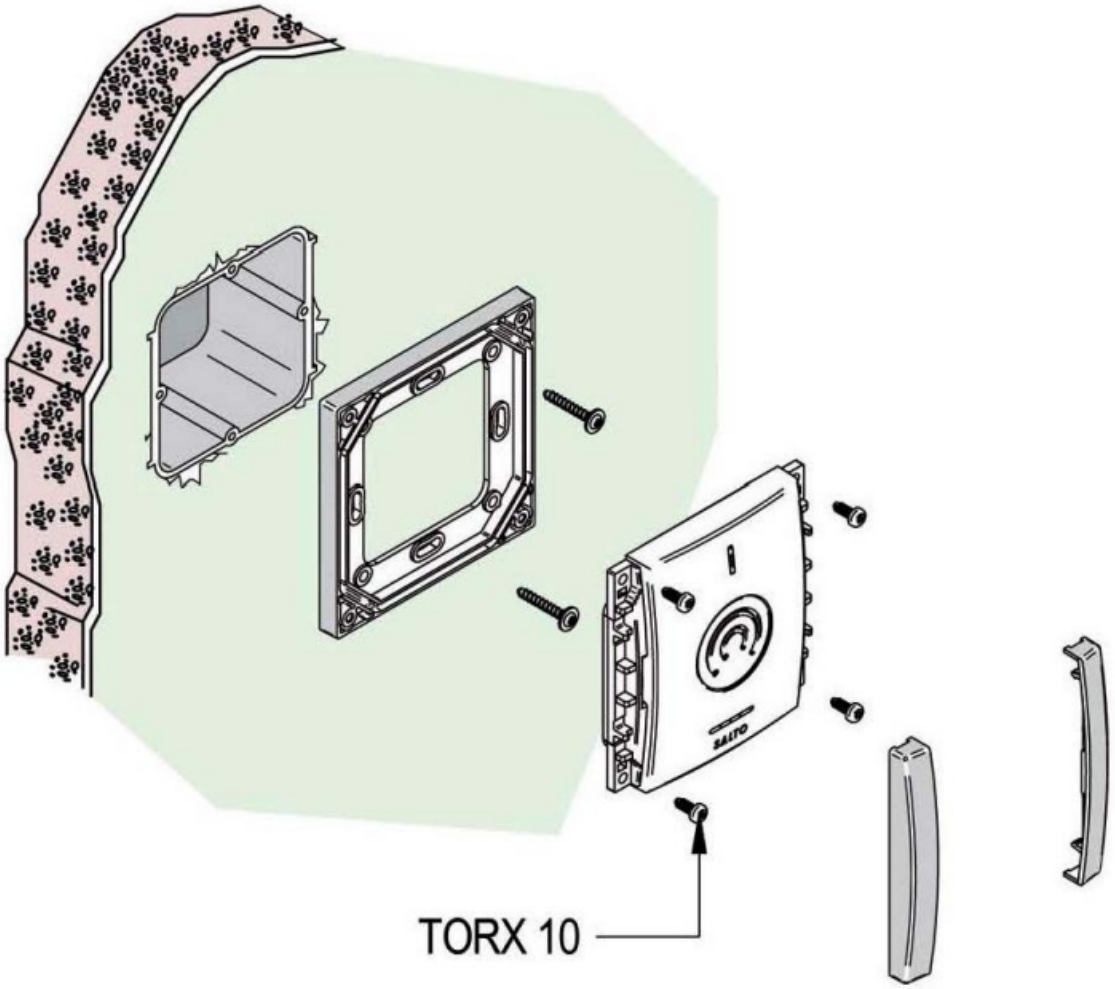
- The environment has a direct impact on the BLUEnet range radiation (metal, concrete walls…) The receiver device must be located facing the product antenna. Please check your product's BLUEnet antenna position. Recommended connectivity distance: 10m – 15m
  - **Note 1**: 1x2x24AWG or UTP CAT5e recommended
  - **Note 2**: Power supply must be calculated taking into account SALTO Gateway and Nodes current consumption

Mechanical installation



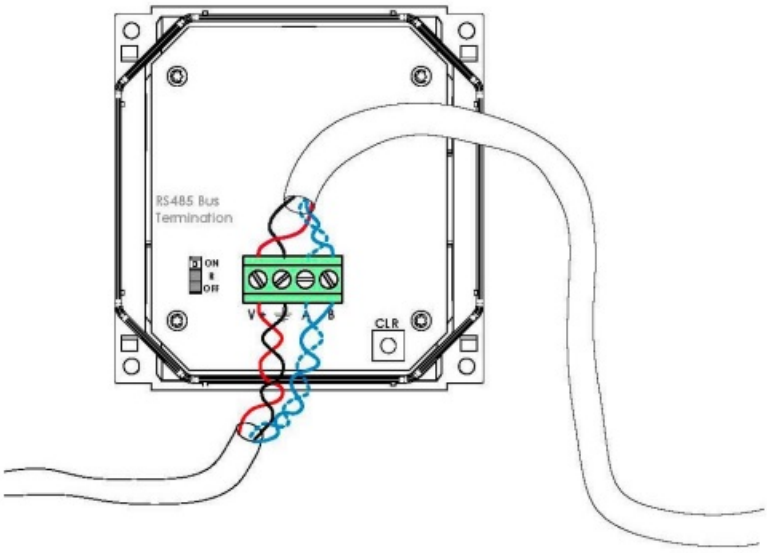
- 1 GANG ELECTRICAL STANDARD BOX



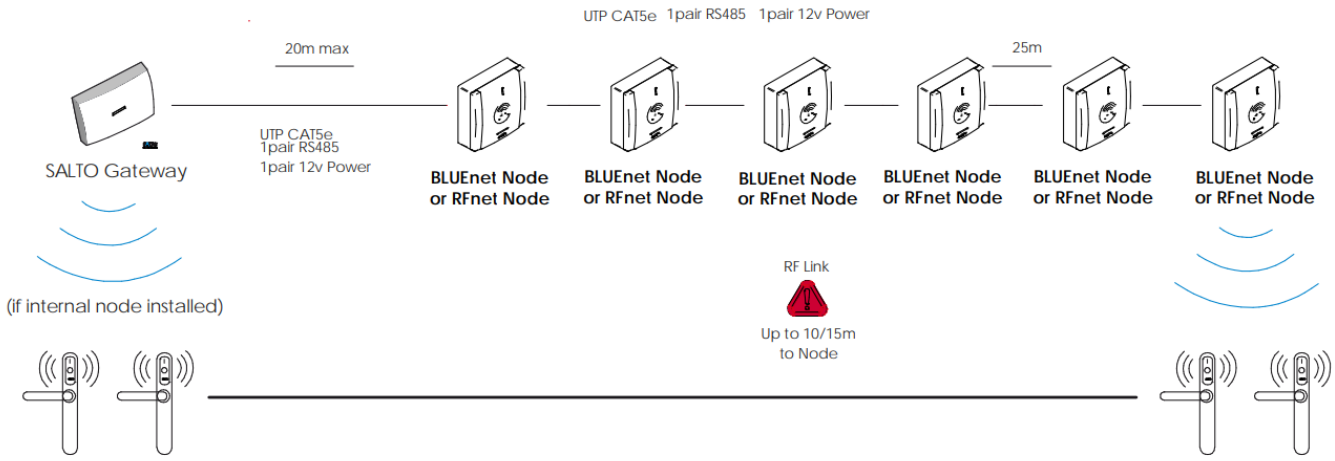


Electrical installation

- RS485 bus termination resistor is needed (ON position) when the node is located at the end of the bus.



Installation example



Signaling

- The green (RFnet Node) or blue (BLUEnet Node) LED of the device indicates that the device is properly powered.

Operational test

- Once the product is installed, follow these steps to check the correct operation:
- When SALTO Gateway and locks are installed, check that the RFnet Node or blueNET Node is active in SALTO's software.

Maintenance

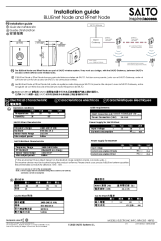
- The unit should be tested at least once a year as described in the "Operational test". Keep the device in a safe place!

Radio information

The environment has a direct impact on the range of radiation (metal, concrete walls…) The receiver device must be located facing the product antenna. Please check your product's device antenna position. Recommended connectivity distance: 5m – 10m

- All contents are current at the time of publication. SALTO Systems S.L. reserves the right to change the availability of any item in this catalog, its design, construction, and/or materials.

Documents / Resources

	SALTO NRF30 BLUEnet Node Wireless Hardware [pdf] Installation Guide NRF30, NRF30 BLUEnet Node Wireless Hardware, NRF30, BLUEnet Node Wireless Hardware, Node Wireless Hardware, Wireless Hardware, Hardware

References

- User Manual