salto
INSPIRED ACCESS

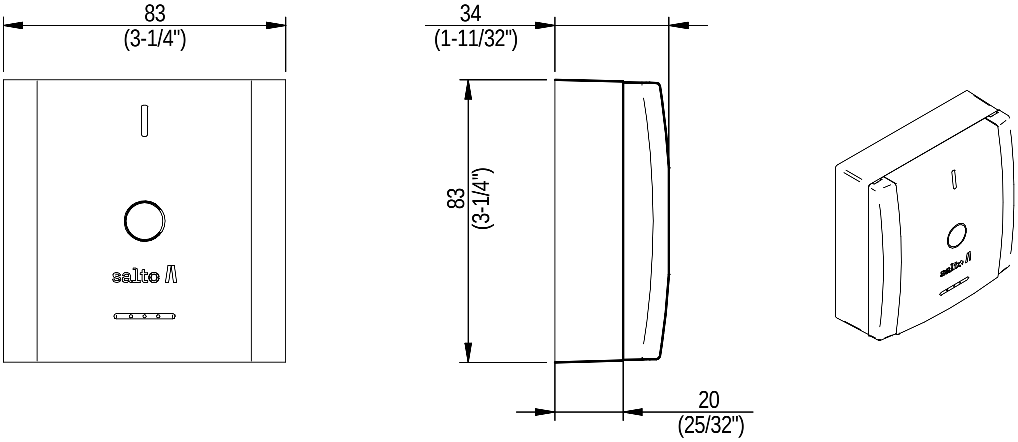
INSTALLATION GUIDE

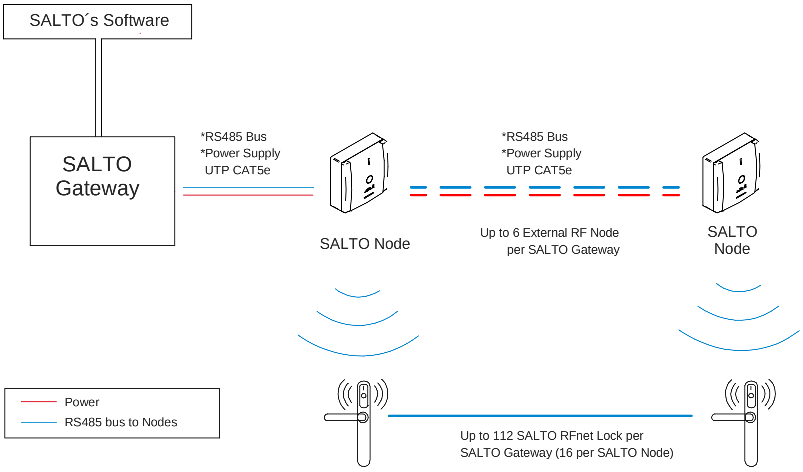
Bluenet Node and RFnet Node

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.

MODEL: ELECTRONIC INFO. RFNODE - NRF30

SALTO ECOSYSTEM


83
(3-1/4")
34
(1-11/32")
83
(3-1/4")
20
(25/32")


SALTO´s Software
SALTO Gateway
*RS485 Bus
*Power Supply
UTP CAT5e
SALTO Node
*RS485 Bus
*Power Supply
UTP CAT5e
Up to 6 External RF Node per SALTO Gateway
SALTO Node
Power
RS485 bus to Nodes
Up to 112 SALTO RFnet Lock per SALTO Gateway (16 per SALTO Node)

Eng Electrical characteristic E Características eléctricas F Caractéristiques électriques ZH 電氣特性

Eng Operation conditions

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

Cable requirements

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

SALTO RFnet Characteristics

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

Power Supply for SALTO RFnet

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

SALTO BLUEnet Characteristics

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

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

Zh 運行條件

	最小	標準	最大	單位
溫度	-20	25	70	ºC
濕度	35		85	

纜線要求

RS485 連接 (AB)	通用雙絞線 註1
電源連接 (Vdd)	24 AWG

SALTO Rfnet 特性

頻率範圍	2400-2483.5 Mhz
標準	IEEE 802.15.4
室內無線電測距	10/15m
最大輸出功率	5 dBm

SALTO RFnet 的電源

	最小	標準	最大	單位
輸入電壓	7	12	28	V
電流消耗			45 注意2	mA

SALTO BLUEnet 特性

頻率範圍	2400-2483.5 Mhz
RF 標準	Bluetooth Low Energy
室內無線電測距	10/15m*
最大輸出功率	8 dBm

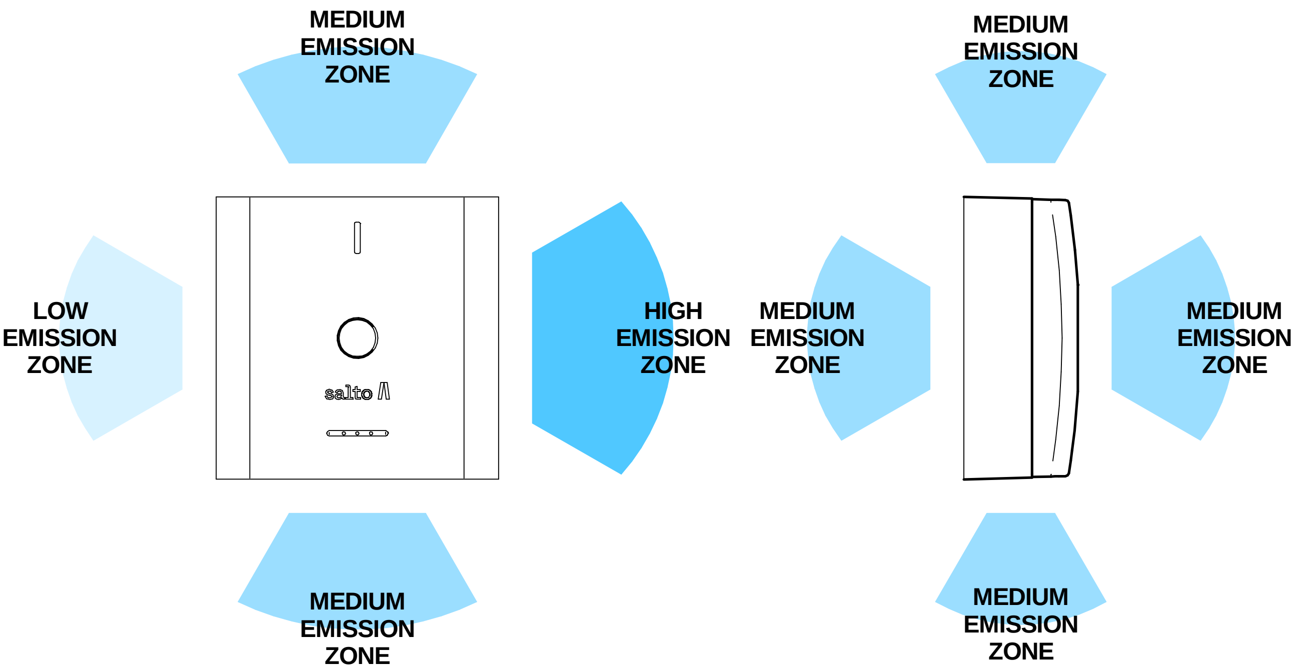
SALTO BLUEnet 的電源

	最小	標準	最大	單位
輸入電壓	7	12	28	V
電流消耗 RFNode			45 註2	mA
電流消耗 RFNet			75 註2	mA

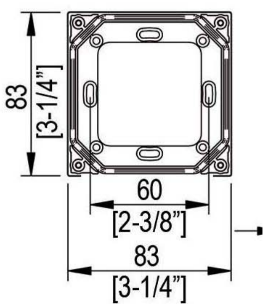
(*) 環境對 BLUEnet 範圍輻射有直接影響(金屬、水泥牆......)
接收裝置的位置必須正對產品天線。請檢查您產品的 BLUEnet 天線位置。
建議連線距離:10 公尺 - 15 公尺

註1: 1x2x24AWG 或UTP CAT5e 建議.
註2: 計算電源時, 必須考慮 SALTO 網關 和節點的電流消耗.

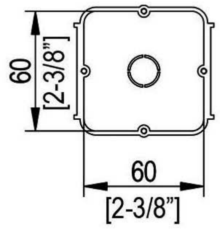
Eng Radiation Pattern E *Esquema de radiación* F Schéma de Rayonnement
Zh 輻射方向圖

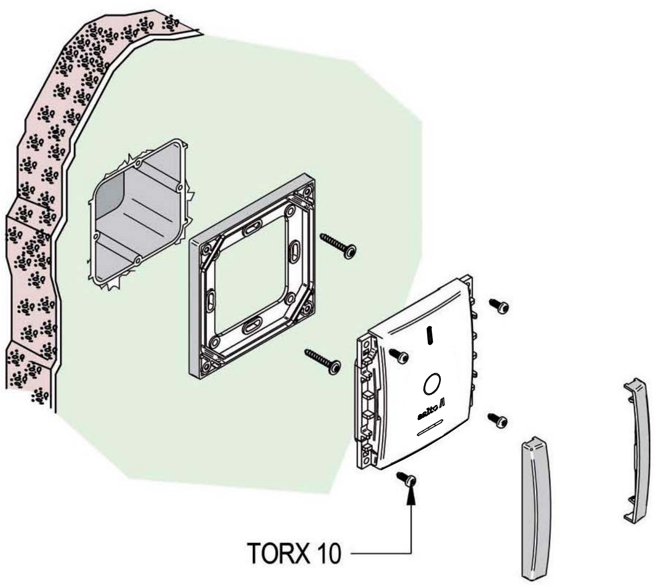


Eng Mechanical installation E Instalación mecánica F Installation mécanique
ZH 機械安裝

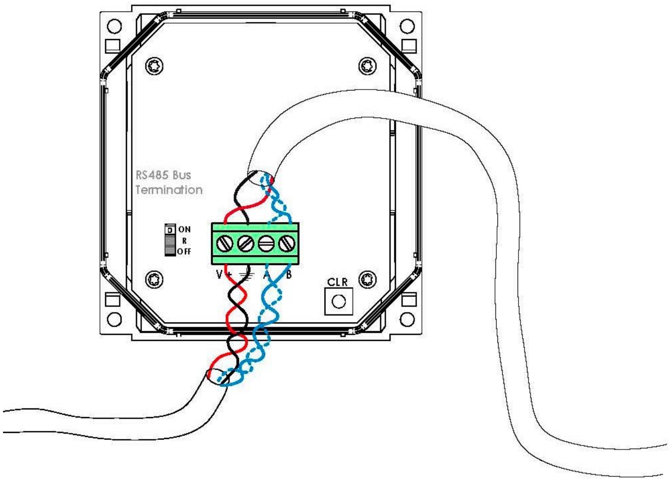


1 GANG ELECTRICAL STANDARD BOX
1 MÓDULO CAJA ELÉCTRICA ESTÁNDAR
1 BOÎTIER ÉLECTRIQUE À BRANCHEMENTS STANDARD
1 組電氣標準箱





Eng Electrical installation | E *Instalación eléctrica* | F Installation électrique | ZH 電氣安裝



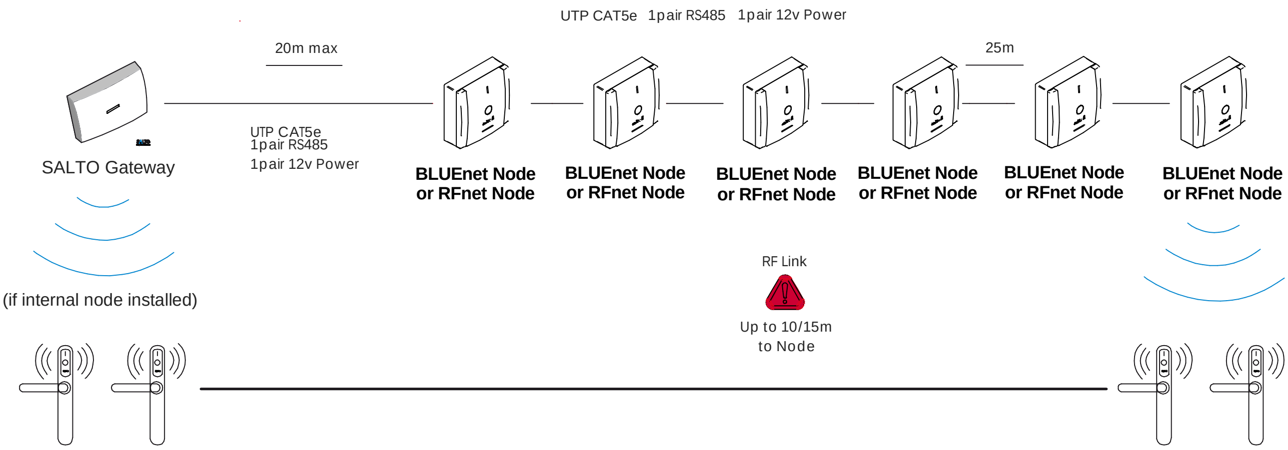
Eng **RS485 bus termination resistor is needed (ON position) when the node is located at the end of the bus.**

E *La resistencia de terminación del bus RS485 es necesaria (posición ON) cuando el equipo esté situado en uno de los extremos del bus.*

F Résistance de terminaison du bus
RS485 nécessaire (position ON) quand le noeud se trouve à la fin du bus.

ZH 節點位於匯流排末端時，需要 RS485 匯流排末端電阻器 (開啟位置)。

Eng Installation example | E *Ejemplo instalación* | F Exemple d'installation | ZH 安裝範例



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Eng Signalling E *Señalización* F Signalisation ZH 信號傳遞

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

E *El LED en verde (RFnet Node) o azul (BLUEnet Node) indica que el dispositivo está alimentado correctamente.*

F La LED verte (RFnet Node) ou bleue (BLUEnet Node) du noeud indique que le dispositif est correctement branché.

ZH 裝置 LED 指示燈呈綠色(RFnet節點)或藍色(BLUEnet節點)表示裝置正常上電。

Eng Operational test E *Test operacional* F Test de fonctionnement ZH 運行測試

Eng **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.

E *Una vez instalada la unidad de control, para comprobar el correcto funcionamiento de la instalación, siga los siguientes pasos:*
- Comprobar que al instalar el SALTO Gateway y las cerraduras RFnet Node o BLUEnet Node están activos en el software de SALTO.

F Lorsque le produit est installé, suivez ces étapes pour vérifier le bon fonctionnement :
- Lorsque le gateway et les serrures SALTO sont installés, vérifiez que les RFnet Node ou BLUEnet Node sont actif dans le logiciel de SALTO.

ZH 安裝產品後，請按照以下步驟檢查運行是否正確
- 安裝 SALTO 網關和鎖後，檢查 SALTO 軟件中的 RFnet 節點或 BLUEnet 節點 是否處於活動狀態

Eng Maintenance E *Mantenimiento* F Maintenance ZH 維護

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

E *Es recomendable realizar un testeo operacional una vez al año siguiendo el "Test operacional". ¡Guarde el dispositivo en un lugar seguro!*

F L'unité doit être testée au moins une fois par an comme décrit dans « Test de fonctionnement ». Gardez le dispositif en lieu sûr!

ZH 本裝置應按「運行測試」中所述每年至少測試一次。請將裝置放在安全的地方！

Eng Radio information E *Información radio* F Radio information ZH 無線電資訊

Eng **The environment has a direct impact on the range 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

E *El entorno tiene un impacto directo sobre el rango de radiación (metal, paredes de hormigón...)*
El dispositivo receptor debe ubicarse frente a la antena del producto. Compruebe la posición de la antena de su dispositivo.
Distancia de conectividad recomendada: 5m - 10m

F L'environnement a un impact direct sur le rayonnement de la gamme (métal, murs en béton …)
Le dispositif récepteur doit être placé face à l'antenne du produit. Veuillez vérifier la position de l'antenne du produit. Distance de connectivité maximale : 5m – 10m

ZH 環境對範圍輻射有直接影響(金屬、水泥牆......)
接收裝置的位置必須正對產品天線。請檢查您產品的裝置天線位置。
建議連接距離：5 公尺 - 10 公尺

Eng Disclaimer

The information provided by Salto in the BLUEnet Wireless Infrastructure recommendations is intended as guidance and is for informational purposes only. Salto Partners and customers are responsible for following the best practices set forth in this document when implementing and maintaining BLUEnet wireless systems within the Salto Space platform. In addition, Partners are responsible for appropriately informing their customers about the content of this document and the limitations and waivers set forth therein.

Actual system performance may vary based on external factors including but not limited to interference from other wireless signals (including multiple Bluetooth devices), the stability of the network connection (including internet and power stability), physical barriers blocking the signal (including metal structures such as doors, furniture, appliances or other objects) or other environmental factors (including high radio noise, electromagnetic interference, etc.). These factors could contribute to signal degradation or connectivity issues, including but not limited to delayed or failed wireless updates and commands or wireless communications latency. Additionally, wireless reliability depends on the installation conditions including the number of locks installed per node, the distance between Salto Gateways, nodes, and locks, and the operability of each Gateway.

If locks are to be used for critical actions such as Lockdown, Partners and customers must comply with the specific recommendations set forth in this document, including limiting the number of locks to 2 per node and installing a designated firmware version. This firmware update may impact battery life.

Given potential variability and unpredictability of these factors, Salto does not guarantee instantaneous communication between a command to lock or unlock doors and the physical lock on the doors. Activation can take several seconds and depends, among others, on the network.

Firmware or software updates may be required for proper operation. Customers are responsible for keeping their firmware and software versions up to date. Regular tests of the system are recommended to ensure proper operation. Important: The Salto’s system is not intended for use as a primary life-safety device. Wireless locks are intended to complement, not replace, other physical or procedural security measures.

All inquiries or requests for additional information should be submitted or directed to Salto.

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