8 027908 396556

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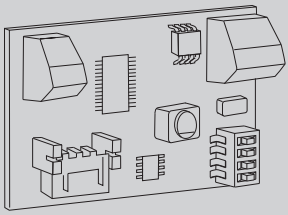
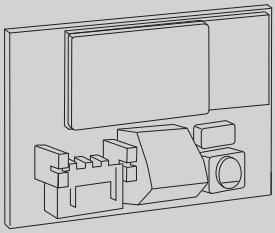
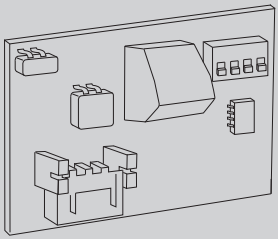
OPTIONAL BOARD







INSTALLATION MANUAL

B EBA RS 485 LINK B EBA BLUE GATEWAY B EBA RS 485 GATEWAY

Bluetooth®

U-LINK

BFT

UNAC CE

AZIENDA CON
SISTEMA DI GESTIONE
CERTIFICATO DA DNV GL
= ISO 9001 =
= ISO 14001 =

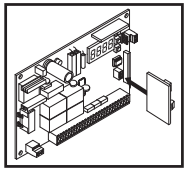
FIG.A

KEY

= ON = OFF

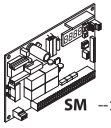
Max. 32 control panels

Connection to be made only if present in terminal "0"



	comanda*
A	BC D E F
B	-
C	-
D	E
E	-
F	C

* Controls



SM -->Serial mode

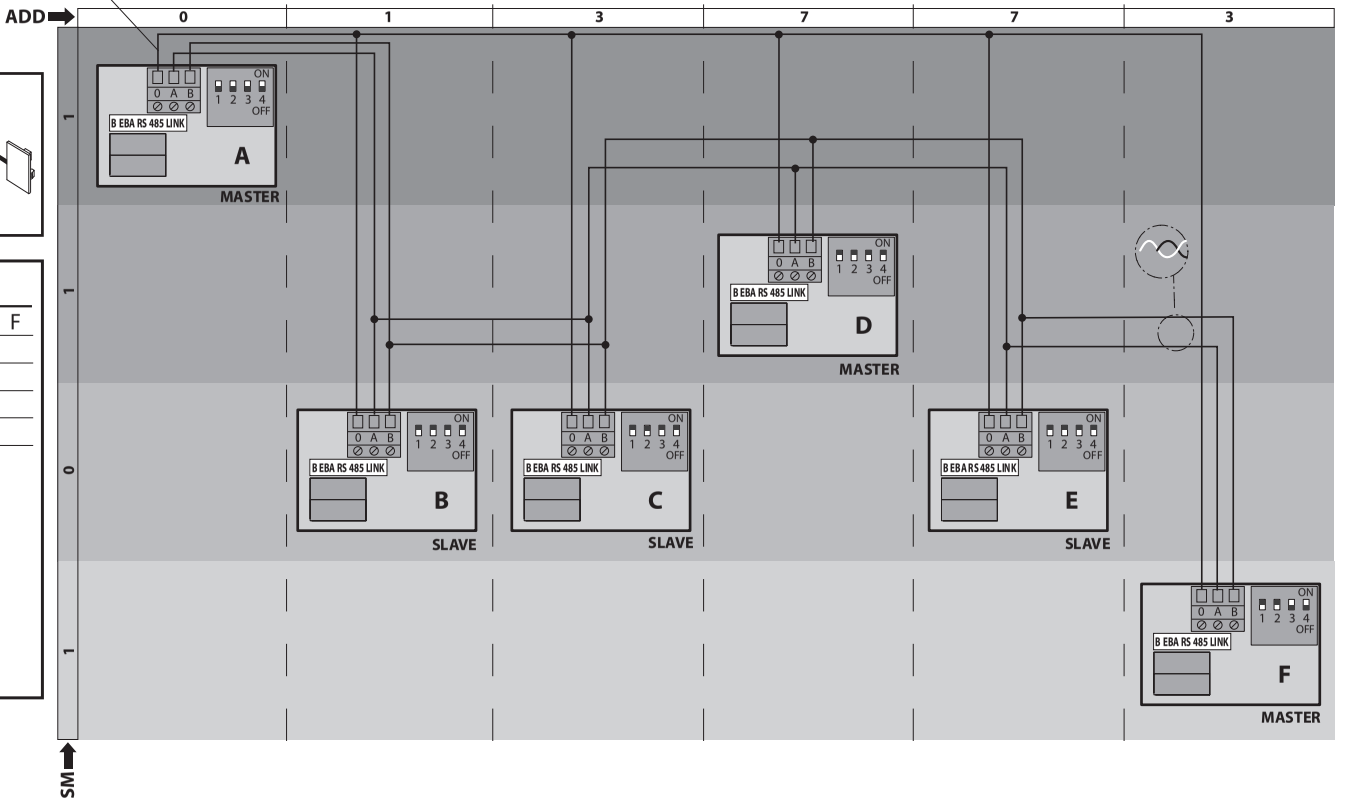
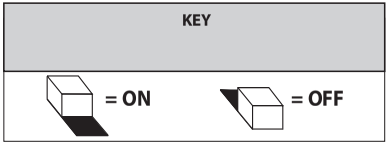


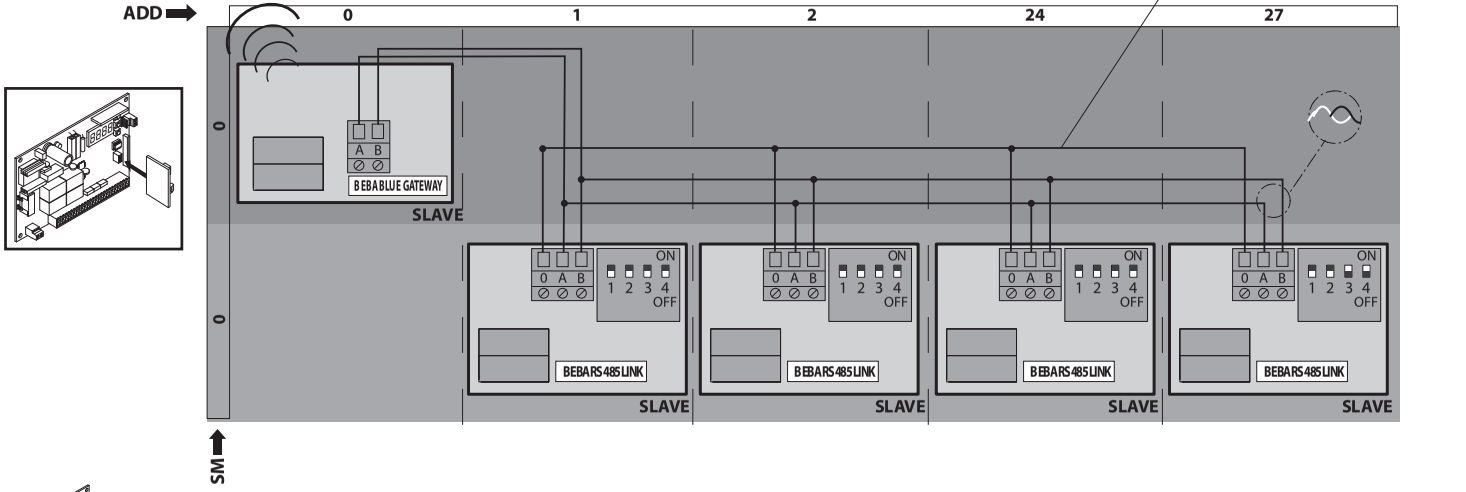
FIG.B

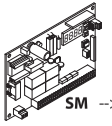


Max. 32 control panels

B

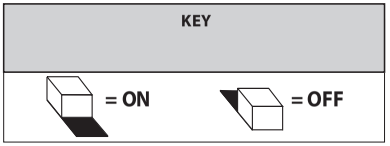
Connection to be made only if present in terminal "0"





SM -->Serial mode

FIG.C



Connection to be made only if present in terminal "0"

USB

485

ADD

0 1 2 24 27

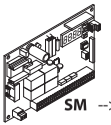
B EBA RS 485 GATEWAY

SLAVE

B EBA RS 485 LINK

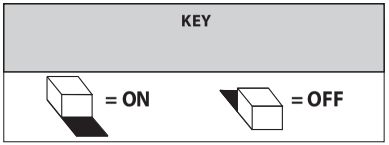
SLAVE

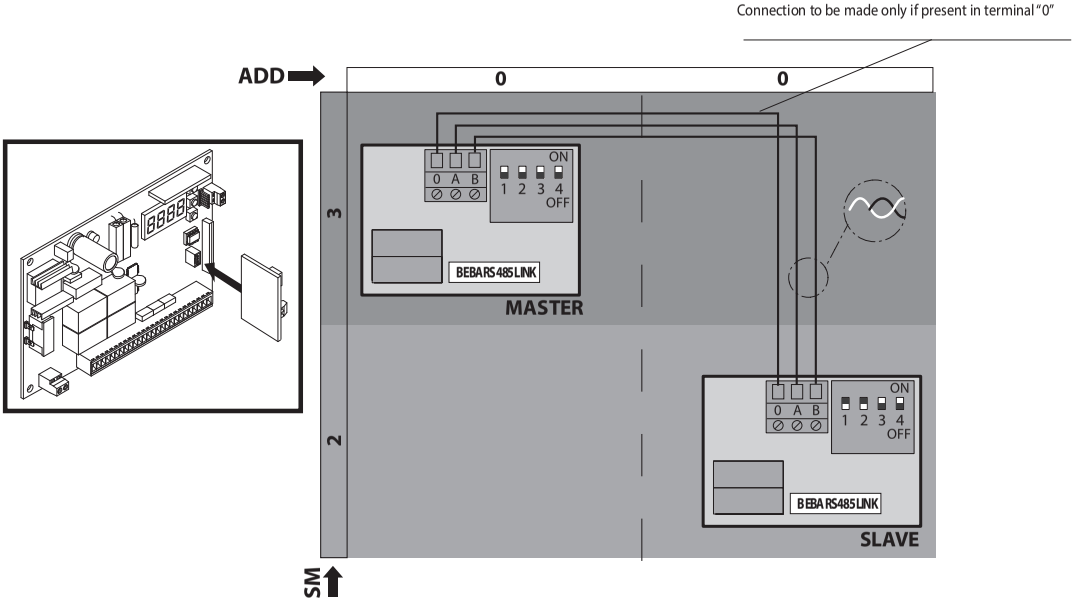
SM

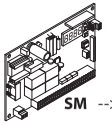


SM -->Serial mode

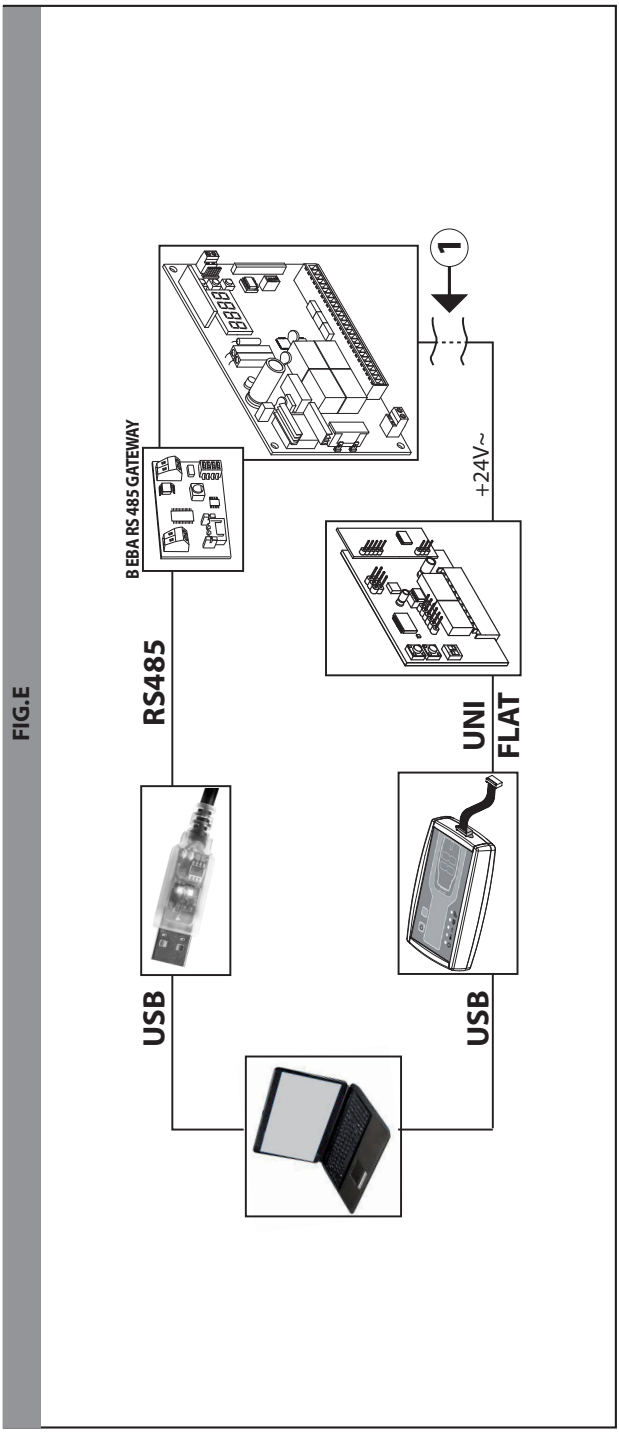
FIG.D







SM -->Serial mode



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These boards are compatible only with control panels using the U-link protocol.

1) Fig.A. Serial connection of Control panels via B EBA RS 485 LINK board

This connection involves connecting a number of control panels and can be used for the centralized operation of a number of automated devices. That way, all the automated devices connected to the same Address can be opened or closed with a single command received from the Master control panel. The Address number allows you to create groups of automated devices, each of which answers to its own Master. Each Address can have only one Master. The Master of Address 0 also controls the Masters and Slaves of the other Addresses. Caution: the first control panel in the network must be a Master. The maximum number of control panels that can be connected in a single network is 32. See example in Fig.A.

WIRING REQUIRED FOR OPERATION:

The control panels are connected to each other with 3 wires relating to the B EBA RS 485 LINK interface boards.Use twisted pair cabling only. When using a telephone cable with more than one pair, it is essential to use wires from the same pair (A-B). The length of the cable between one module and the next must not be greater than 250 m.

SETTINGS REQUIRED FOR OPERATION:		
	Logic on control panels	**Dip switch settings on B EBA RS 485 LINK**
First control panel in network: Master	Serial mode =1. Address = "assigned address number".	DIP1=ON DIP2=ON DIP3=ON DIP4=ON
Master control panels within network		DIP1=OFF DIP2=OFF DIP3=OFF DIP4=OFF
Slave control panels	Serial mode=0. Address = "assigned address number".	DIP1=OFF DIP2=OFF DIP3=OFF DIP4=OFF
Control panel furthest away	Serial mode =0 (if slave) and 1 (if Master). Address = "assigned address number".	DIP1=OFF DIP2=OFF DIP3=ON DIP4=ON

2) Fig.B/C. U-Link serial connection

The B EBA BLUE GATEWAY and B EBA RS 485 GATEWAY modules allow you to connect a supervisor* to the local network of compatible BFT U-link devices by means of wireless Bluetooth technology for UNI-BLUE and by means of RS-485 twisted pair cabling for UNI-SER. B EBA BLUE GATEWAY and B EBA RS 485 GATEWAY must be connected to the only local network device with the address 0. Each network device must have a different address.

Using a U-link supervisor*, you can address each device in the local U-link network and manage parameters, settings, transmitters and diagnostics.

For information on the features of the supervisor and available functions, refer to the relevant manual.

The network is made up of a device with a B EBA BLUE GATEWAY / B EBA RS 485 GATEWAY module to which all the other devices are connected using twisted pair cabling in a U-link serial connection. The smallest possible network is made up of a single device with the address 0 with a B EBA BLUE GATEWAY / B EBA RS 485 GATEWAY module.

WIRING REQUIRED FOR OPERATION:

The control panels are connected to each other with 3 wires relating to the B EBA RS 485 LINK interface boards. Use twisted pair cabling only. When using a telephone cable with more than one pair, it is essential to use wires from the same pair (A-B). The length of the cable between one module and the next must not be greater than 250 m.

Warning: if a control panel is simultaneously connected to:
- a B EBA RS 485 GATEWAY board and
- an external receiver

and simultaneous communications are required:
- from the PC to the B EBA RS 485 GATEWAY board via 485 adapter
- from the same PC to the external receiver board using U-Prog, disconnect the external receiver from the 24V control panel power supply (Fig. E).

SETTINGS REQUIRED FOR OPERATION:		
	Logic on control panels	**Dip switch settings**
First control panel in network with B EBA BLUE GATEWAY	Serial mode = 0. Address = 0.	
First control panel in network with B EBA RS 485 GATEWAY module		DIP1=ON DIP2=ON DIP3=ON DIP4=ON
Control panels with module B EBA RS 485 LINK	Serial mode =0. Address = from 1 to 127 (each control panel must have a different address from the others).	DIP1=OFF DIP2=OFF DIP3=OFF DIP4=OFF
Control panel furthest away with B EBA RS 485 LINK		DIP1=OFF DIP2=OFF DIP3=ON DIP4=ON

3) Fig.D. Serial connection for Opposite leaves.

This connection involves connecting two control panels for the centralized control of two opposite barriers/gates.

In this case, the Master control panel will simultaneously control the closing and opening of the Slave control panel.

WIRING REQUIRED FOR OPERATION:
- The Master control panel and Slave control panel are connected to each other with 3 wires relating to the B EBA RS 485 LINK interface boards. Use twisted pair cabling only. When using a telephone cable with more than one pair, it is essential to use wires from the same pair (A-B). The length of the cable between one module and the next must not be greater than 250 m.
- All activation commands, as well as remote commands, must refer to the Master board;
- All photocells (tested or otherwise) must be connected to the Master;
- The safety edges (tested or otherwise) of the Master leaf must be connected to the Master control panel;
- The safety edges (tested or otherwise) of the Slave leaf must be connected to the Slave control panel.

SETTINGS REQUIRED FOR OPERATION:
- On the Master control panel, logic must be set as follows: Serial mode = 3 and Address = 0
- On the B EBA RS 485 LINK board connected to the Master control panel, all Dip switches must be set to ON

- On the Slave control panel, logic must be set as follows: Serial mode = 2 and Address = 0
- On the B EBA RS 485 LINK board connected to the Slave control panel, Dip switches 1 and 2 must be set to OFF and Dip switches 3 and 4 set to ON

SETTINGS REQUIRED FOR OPERATION:		
	Logic on control panels	**Dip switch settings on B EBA RS 485 LINK**
Master control panel	Serial mode=3. Address = 0	DIP1=ON DIP2=ON DIP3=ON DIP4=ON
Slave control panel	Serial mode=2. Address = 0.	DIP1=OFF DIP2=OFF DIP3=ON DIP4=ON

SPECIFICATIONS	
Operating temperature range	-20°/+50°c
Max. Bluetooth connection distance: Between B EBA BLUE GATEWAY and wireless programmer	20 m
Max. connection distance with cable: Between B EBA BLUE GATEWAY/B EBA RS 485 GATEWAY and B EBA RS 485 LINK - Between B EBA RS 485 LINK and B EBA RS 485 LINK	250 m
Max. network length	500 m*[1]
Max. N° of devices on 485 network	32*[2]
B EBA BLUE GATEWAY band	2400 - 2483,5 MHz
B EBA BLUE GATEWAY power	Max average 30mW EIRP
Dimensions	42 x 29 mm (HxL)

* Supervisor means either a palmtop programmer or control software.

*[1] the max. network length can be extended using an RS 485 repeater.

*[2] the number of devices can be increased to 128 using an RS 485 repeater.

SCRAPPING Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

BFT Spa www.bft-automation.com
Via Lago di Vico, 44 **ITALY**
36015 Schio (VI)
T +39 0445 69 65 11
F +39 0445 69 65 22

SPAIN www.bftautomatismos.com
BFT GROUP ITALIBERICA DE AUTOMATISMOS S.L.
08401 Granollers - (Barcelona)

FRANCE www.bft-france.com
AUTOMATISMES BFT FRANCE
69800 Saint Priest

GERMANY www.bft-torantriebe.de
BFT TORANTRIEBSSYSTEME Gmb H
90522 Oberasbach

BENELUX www.bftbenelux.be
BFT BENELUX SA
1400 Nivelles

UNITED KINGDOM www.bft.co.uk
- **BFT Automation UK Limited**
Unit C2-C3, The Embankment Business Park, Vale Road, Heaton Mersey, Stockport, SK4 3GL
- **BFT Automation (South) Limited**
Enterprise House, Murdock Road, Dorcan, Swindon, SN3 5HY

PORTUGAL www.bftportugal.com
BFT SA - COMERCIO DE AUTOMATISMOS E MATERIAL DE SEGURANCIA
3026-901 Coimbra

POLAND www.bft.pl
BFT POLSKA SP.ZO.O.
Marecka 49, 05-220 Zielonka

IRELAND www.bftautomation.ie
BFT AUTOMATION LTD
Unit D3, City Link Business Park, Old Naas Road, Dublin 12

CROATIA www.bft.hr
BFT ADRIA D.O.O.
51218 Drazice (Rijeka)

CZECH REPUBLIC www.bft.it
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111020 Moscow

AUSTRALIA www.bftaustralia.com.au
BFT AUTOMATION AUSTRALIA PTY LTD
Wetherill Park (Sydney)

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Shanghai 200072

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