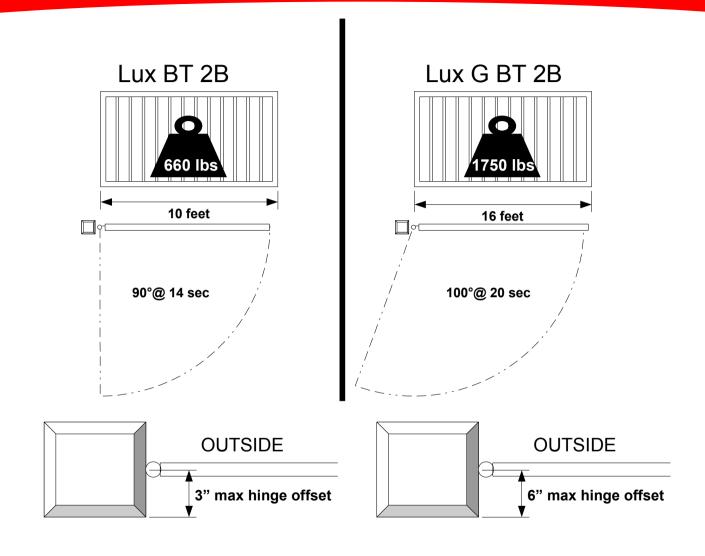
LUX BT 2B & LUX G BT 2B

With the Libra C-LX controller
Characteristics and Quick Installation Procedure



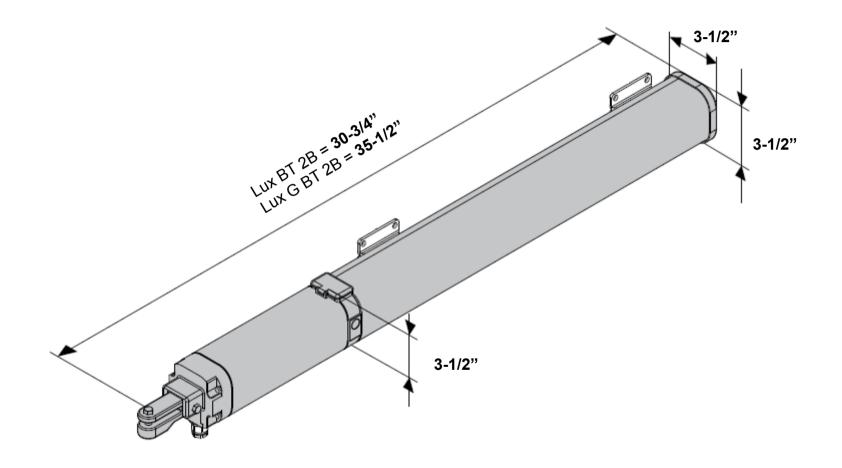
LOAD CAPACITIES AND APPLICATIONS



The Lux BT actuators are high capacity, medium/high cycle operators intended for residential and commercial applications. It is designed to be installed directly to the gate post up to 6" wide on the Lux BT 2B, and 12" wide on the Lux G BT 2B when the hinge is centered on the post. For wider post or column mounts, it is required to move the gate hinge closer to the actuator, no farther than 3" on the BT 2B, and 6" on the G BT 2B from the inner edge of the post or column.

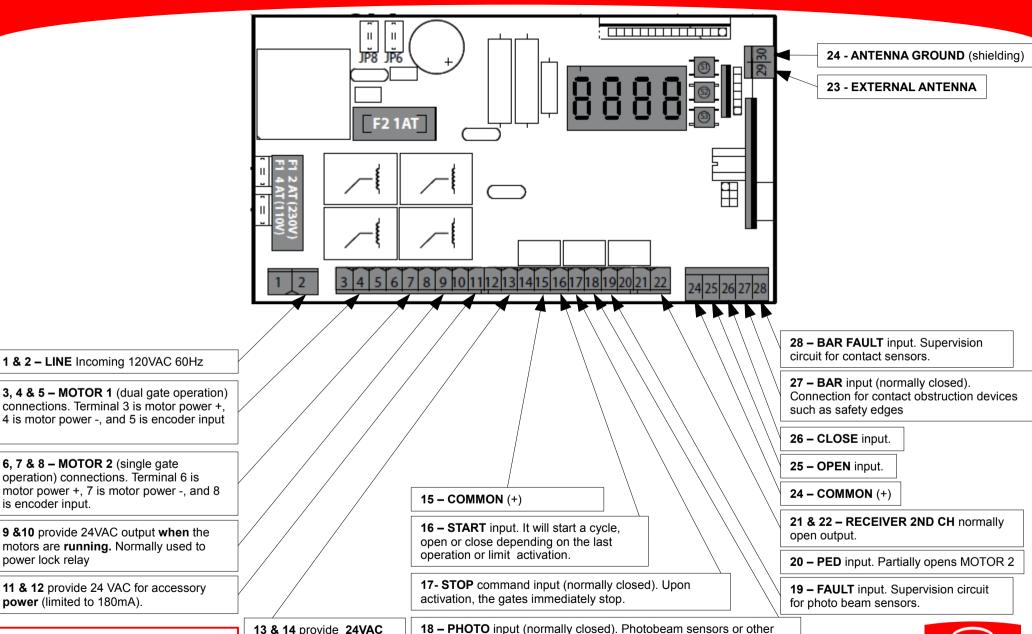


PHYSICAL CHARACTERISTICS





LIBRA C-LX TERMINAL BLOCK CONNECTIONS



WARNING:

is encoder input.

power lock relay

Terminals 9 through 14 will switch to 24VDC output when the system is running under battery back up.

1 & 2 - LINE Incoming 120VAC 60Hz

6, 7 & 8 - MOTOR 2 (single gate

operation) connections. Terminal 6 is

9 &10 provide 24VAC output when the

motors are **running**. Normally used to

11 & 12 provide 24 VAC for accessory

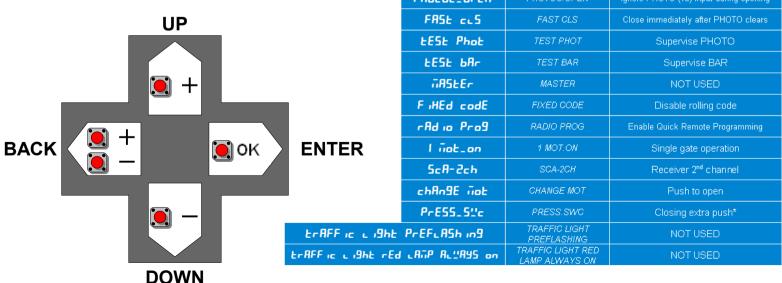
power (limited to 180mA).

at all time except when the gates reach its close limits or the stop button is pressed

18 - PHOTO input (normally closed). Photobeam sensors or other obstruction sensing devices connect to this terminal. If triggered during the close cycle the gate reverses. If triggered during the open cycle the gate stops. The controller can be configured to ignore this input during the open cycle.

PROGRAMMING MENU FLOWCHART

Press OK twice to enter programming MAIN **PARAMETERS** PACAL PARAM EcA TCA Timer to close LOGIC OPEN DELAY TIME Motor 2 open delay time **EER** L09 1C Timer to close CLS BELAY E ITE CLS DELAY TIME ibe oPEn IBL OPEN Ignore START on open **RADIO** Motor 1 close delay time rAd 10 RADIO Add Start ADD START Radio learn START CLEAR_E CLEAR, T NOT USED IBL TCA Add 2ch ADD 2CH Radio learn 2rd channel ibe EcA Ignore START on TCA LANGUAGE LANGUAGE Notor | torque MOTOR 1 TORQUE ibe crose IBL CLOSE Ignore START on close rERd READ Radio identify Motor 1 torque ErASE 64 Notor 2 torqUE MOTOR 2 TORQUE Motor 2 torque rATT bLO! CLOP RAM BLOW C.OP Push before open* ERASE 64 Erase memory *dEFRULE* DEFAULT Scoll Speed RAM BLOW C.CL Display receiver code SLOW SPEED Slowdown speed rAi bro" c.c. Push before close* rH codE RX CODE oP SPEEd OP SPEED Opening speed 2 SEEP Instant reverse in both directions !!H WK NOT USED 3 SEEP AULoSEL cr SPEEd CL SPEED Closing speed Instant reverse on closing d .5t_5co"d DIST.SLOWD Slowdown distance PrE-ALArii L5" AdJ LSW ADJ AP_PAr2 AP.PAR2 buoc PErsist Partial opening Hourly push* 2anE ZONE NOT USED houd-to-run PHOTOC.OPEN Photoc_oPEn Ignore PHOTO (18) input during opening

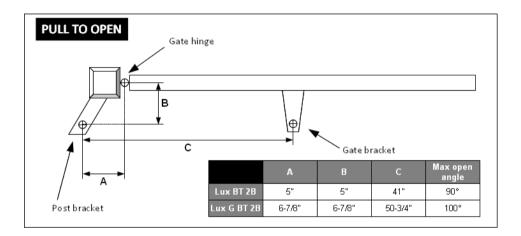


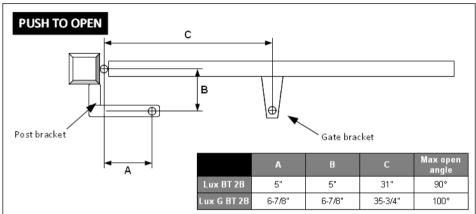
* Requires physical stops

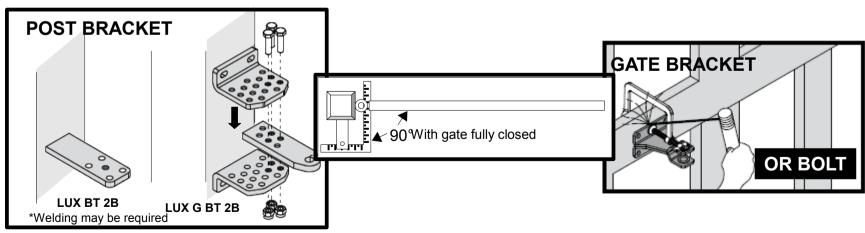


MOUNTING BRACKETS

First determine the location of the post bracket according to the proper geometry (dimensions A and B). A carpenter's square is a great tool for a more accurate measurement. Remember to use a fully closed gate leaf as your reference to the angle of the square. It must be perpendicular (90°) to the gate leaf. Securely attach the post bracket to the post.





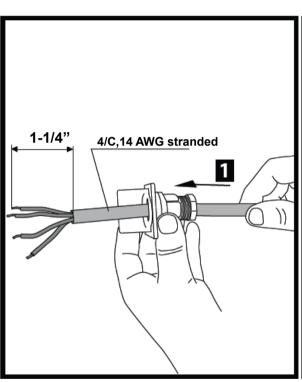


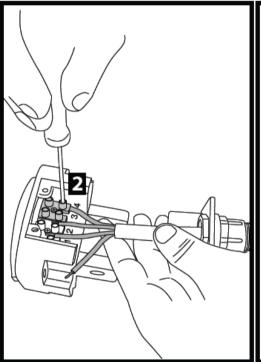
Next determine the location of the gate bracket according to the proper geometry (dimension C) and attach to gate (weld or bolt).

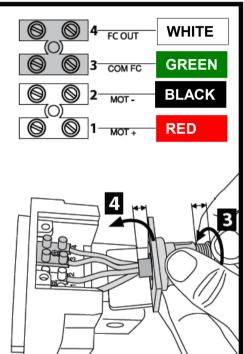


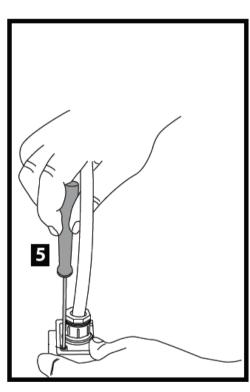
WIRING THE ACTUATOR

Before continuing with the installation of the actuator to the post bracket, connect the actuator wires on the back of the actuator body.







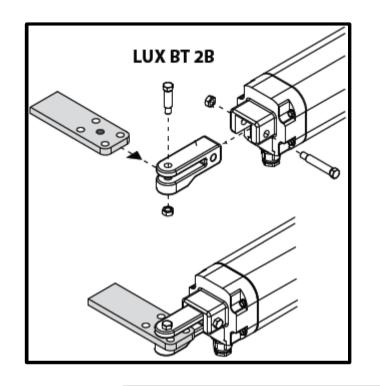


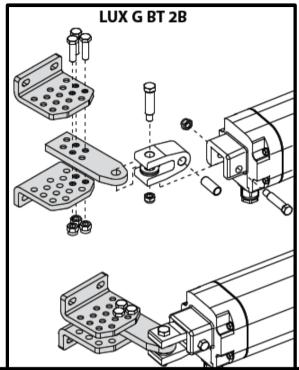


INSTALLING THE ACTUATOR

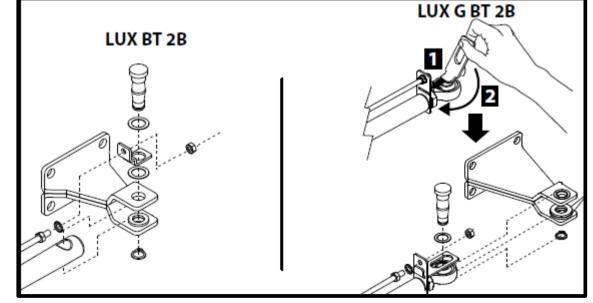
Attach the actuator to the post and gate brackets as illustrated.

POST BRACKET



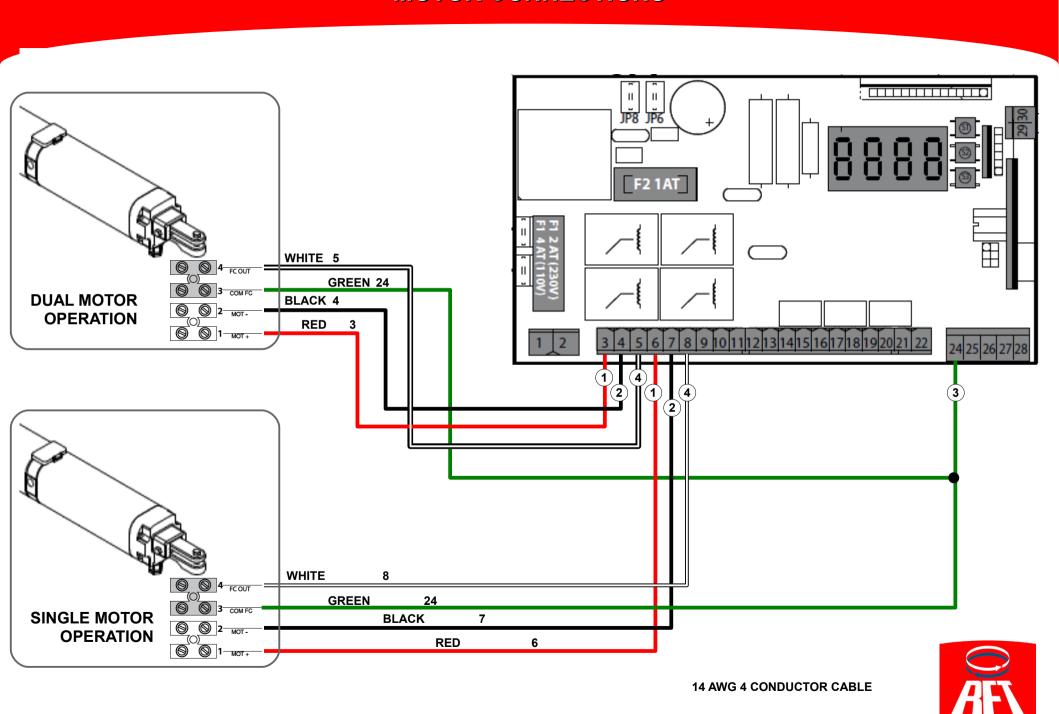


GATE BRACKET





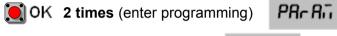
MOTOR CONNECTIONS

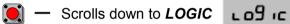


SINGLE OR DUAL GATE OPERATION

The Libra C-LX is defaulted to operate 2 actuators. To operate a single actuator the controller must be program to ignore one actuator.

For single gate operation press:





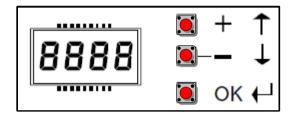




OK To select 1 MOT ON oFF

To change the value to ON

OK To accept





SETTING THE OPEN STROKE LIMITS

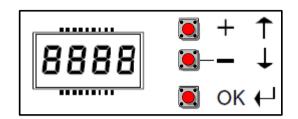
1 Initiate process

At the control board press:

🌉 ok 🛮 2 times (enter programming) PRຕ Rົດ

— 6 times (limit adjustment) ∟5! AdJUSE

OK To start limit adjustment

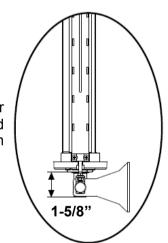


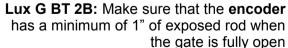
2 Set the actuator(s) to manual operation

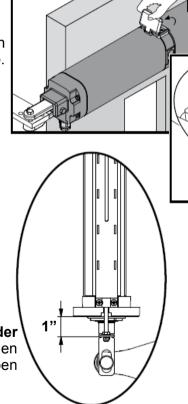
Enable the manual operation by using the triangular key on the valve located on the top of the actuator and turn counterclockwise until valve comes to a stop.

Fully open the gate(s)

Lux BT 2B: Make sure that the actuator has a minimum of 1-5/8" of exposed rod when the gate is fully open







4 Set the open limits

With the gate fully open, wait for the display to show OPM2 – Open motor 2) and press OK to set MOTOR 2 open limit.

For single gate operation skip to SETTING THE CLOSE STROKE LIMIT

With the gate fully open, wait for the display to show P_{i} (OPM1 – Open motor 1) and press OK to set MOTOR1 open limit.

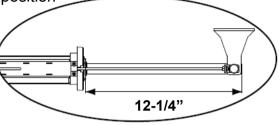


SETTING THE CLOSE STROKE LIMITS

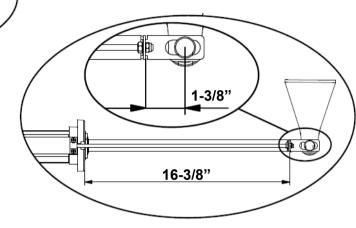


Push the gate or gates to their fully closed position

Lux BT 2B: Make sure that the actuator's rod does not extend over 12-1/4"



Lux G BT 2B: Make sure that the encoder's rod does not extend over 16-3/8"



Set the close limit(s)

With the gate fully closed, wait for the display to show

(CLM2 – Close motor 2) and press OK to set MOTOR 2 close limit.

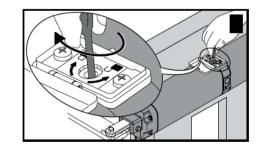
For single gate operation skip the next step. With the gate fully closed, wait for the display to show

[Lii] (CLM1 – Close motor 1) and press OK to set MOTOR1 close limit.

An **OK** indication should show on the screen. Press OK and then press + at the same time to exit programming.

Re-engage automated operation

Close manual operation valve (Turn clockwise until it stops)





PROGRAMMING THE REMOTES

At the control board press:

OK 2 times (enter programming) PA-A.

Initiate process

OK 2 times Radio selection -Ad ...

OK 2 times To begin the radio learn

H ...

H ...

H ...

H ...

H ...

H ...

At the control board press:

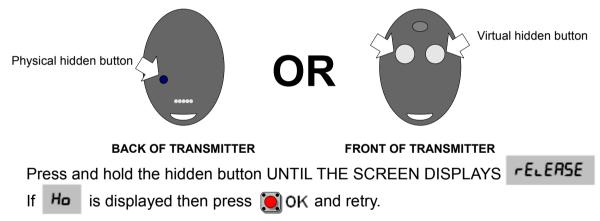
OK 2 times (enter programming)

PA-A...

H ...

2 Press and hold the hidden button

The Mitto radio transmitter, may have a physical hidden button on the back. If no button is visible on the back, pressing and holding the top two buttons on the front of the transmitter will trigger a virtual hidden button.



3 Press the desired button

The display should read dE5 in Ed bULLon

Press the button on the front of the remote which you would like to operate the gate with.

The display should momentarely read **OK** and the number of the remote in the memory of the receiver.

You must exit programming to test the remotes. Press:

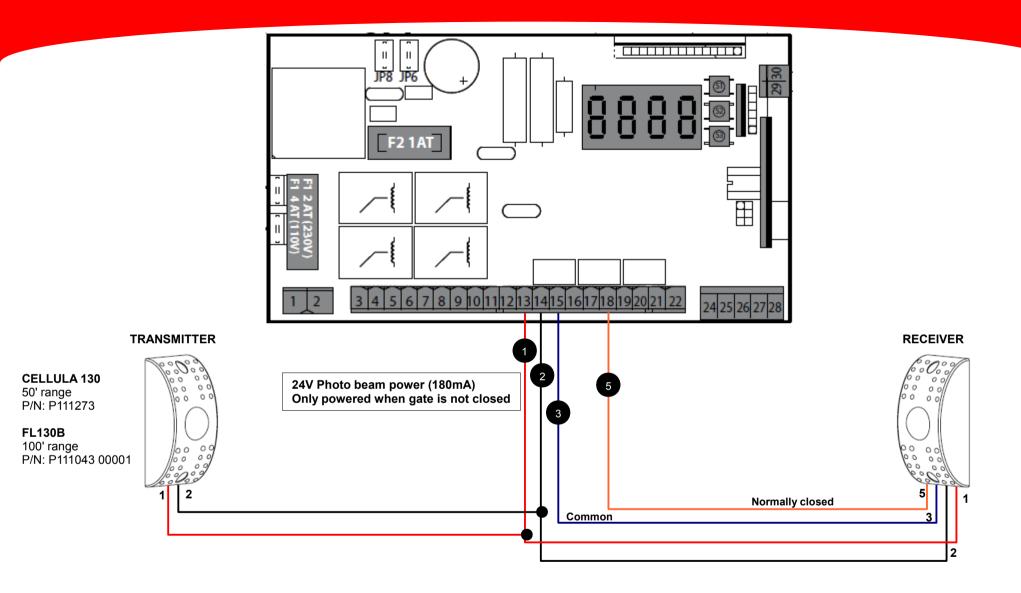




at the same time twice to exit

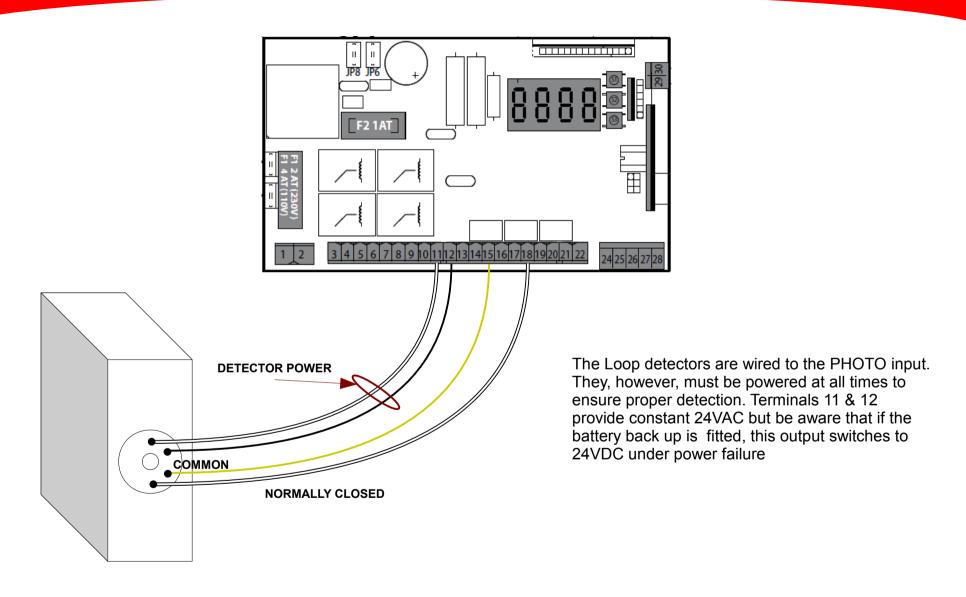


PHOTOBEAM SENSOR CONNECTIONS



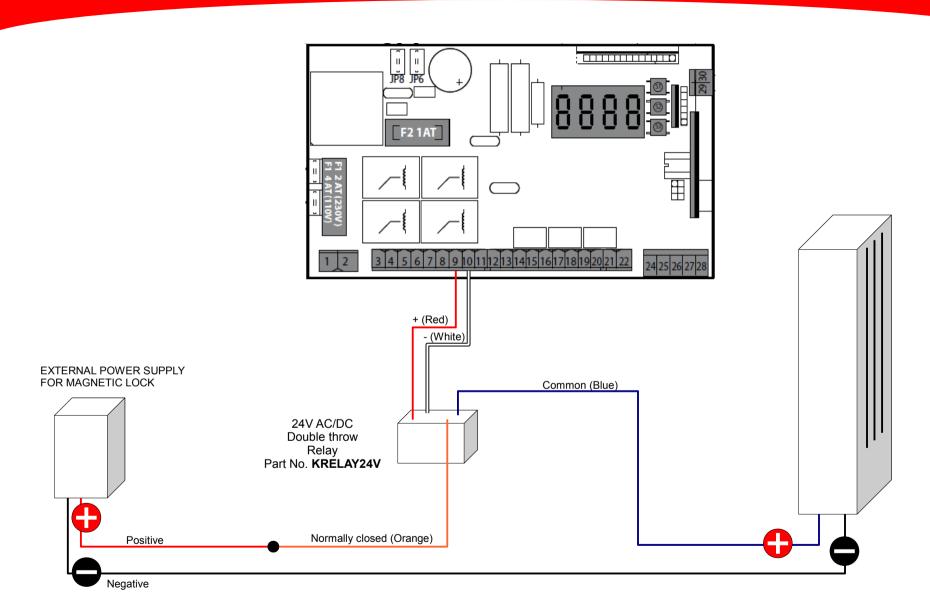
Terminals 13 and 14 provide 24V power only when the gate is not closed. This feature not only prolongs the life of the photo beams, but if battery backup is being used, it saves battery power by turning off the photo beams when not needed.

LOOP DETECTOR CONNECTIONS





MAGNETIC LOCK WIRING





ACCESSORIES







4 channel, wall mounted remote control

Clonix 2E2 programmable channel outdoor receiver





Every day, for more that 25 years, we at BFT, have been making life more comfortable and more secure for millions of people in more than one hundred countries worldwide.

BFT USA, backed by its head office 25 years of experience, has been distributing in North America, quality CSA/UL approved gate operators for over 10 years. Since October 2006, BFT U.S., Inc., a wholly owned subsidiary of BFT S.p.A. of Italy, opened an office in Boca Raton, Florida. From this location where ample stock of all **UL/CSA approved** electromechanical and hydraulic operators is stocked, **we distribute throughout USA, Canada and the Caribbean Islands**. We also provide **technical service and training** as well as developing some local products for the gate market. We carry stock of major products in **Southern California** to service the west coast of the USA.

Since March 2004, BFT is owned by The <u>SOMFY Group</u>, worldwide leader in automation around the home and buildings. Somfy Systems, based in New Jersey, Florida and California, has been present in USA since 1977.

Technical Assistence: 877-995-8155 (toll free) or 561-995-8155 Extension 6403

