Lux BT QSG

(see also Thalia P or Libra CLX QRG)

Quick reference guides are not a replacement for the supplied instructions, they are supplementary
Read and understand the installer warnings in the main instruction document first
Always apply good, safe, state of the art engineering and electrical installation principles
Safety of the completed installation is the ultimate responsibility of the installer
This product is not suitable for DIY use and should only be installed and maintained by a trained, skilled, professional installer

Geometry

This motor will work best when A = B, any other configuration will detract from its performance and could affect reliability
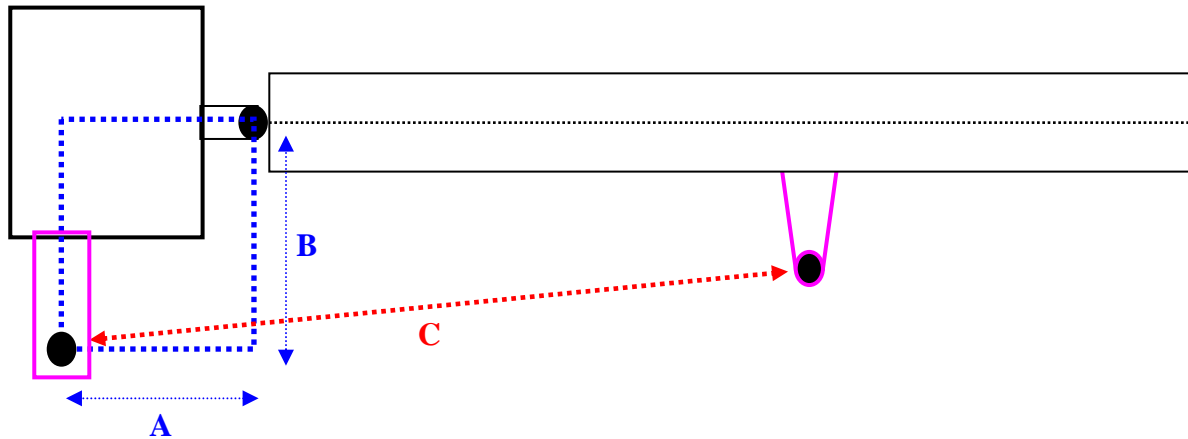
Lux BT – A = 135mm B = 135mm C = 1050mm

Lux G BT – A = 195mm B = 195mm C = 1295mm

Geometry

LUX BT 2B — A mm

	90	100	110	125	135	145	155	165	175
90					113	105	100	95	92
100					107	101	96	92	89
110				106	102	96	92	89	
125				100	95	90	87		
135			98	95	90				
145		94	96	90					
155		94	92						
165	90	93	87						
175	92	87							α°

LUX G BT 2B — A mm

	115	135	155	175	195	215	235	255	275
115				117	120	108	101	96	92
135				118	111	102	96	91	
155		103	108	115	104	96	91	87	
175		103	108	106	97	91	87		
195		101	106	97	90				
215		100	99	90					
235	95	101	90						
255	94	89							
275	88								
295									

Extreme difference between A and B should be avoided at all cost, and will only work on the lightest gates in perfect locations and with perfect set up

End of Stroke Limit

The rams need a degree of travel left un used in the open and closed positions

If these dimensions are exceeded the encoder will not accept the limit positions and give ER SU during the set up procedure

LUX BT 2B
CLOSE
312mm
41 mm
OPEN

LUX G BT 2B
CLOSE
26 mm
418mm
OPEN

Note the differing measurement points on the G model
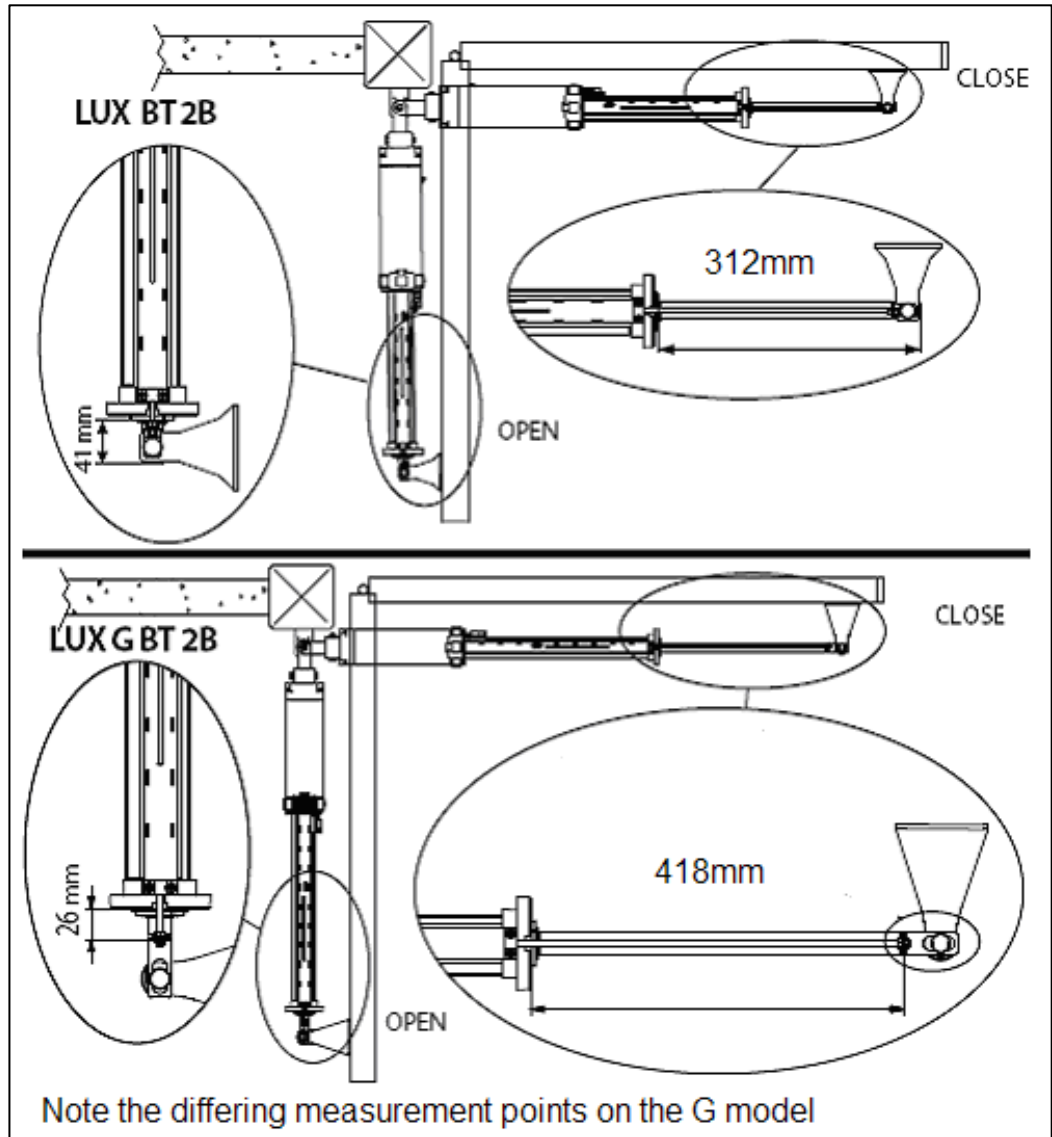
Length, Weight and Locks

Leaf weight/length should not exceed;

Lux BT   300Kg/2m

Lux G BT 800Kg/3m

300kg/5m

Where the G BT is used on gates over 3m length, it must be used in non locking form. Turn both valves fully anti clockwise *after* set up
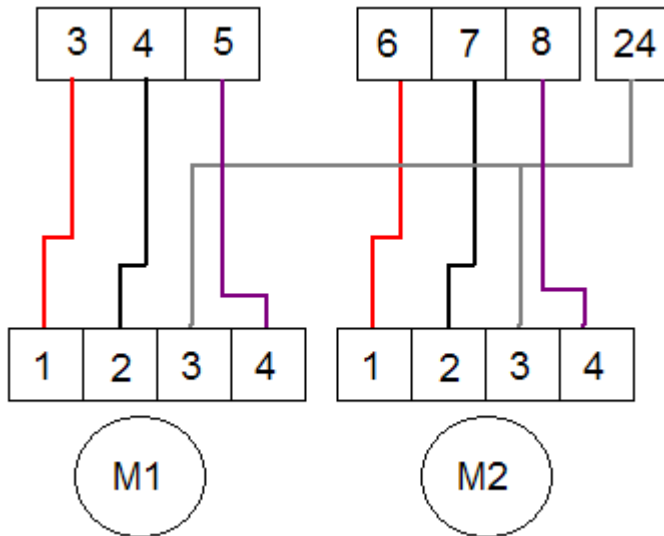

Open and Close locks are provide on either side of the release valve

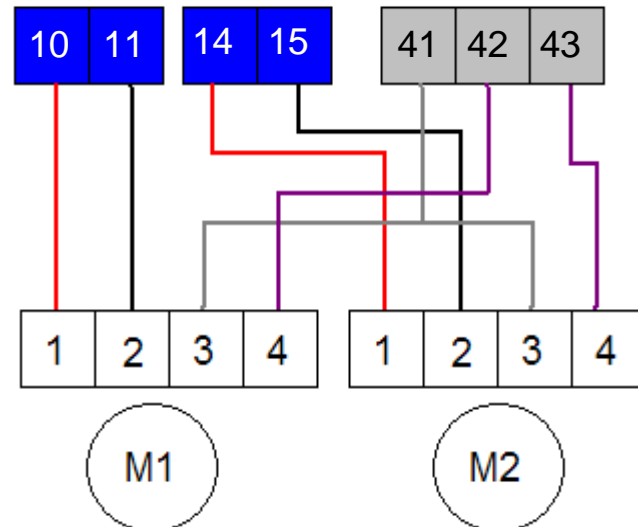Ground stops are recommended in the open and closed positions. Neither motor is recommended for use with wind affected gates.

Wiring

Libra CLX

Thalia P

Use 3 core externally rated flex in accordance with BS7671

1.5mm^2 up to 10m

2.5mm^2 up to 20m

Method Libra CLX

Fit the motors and check the end of stroke limits

Close the gates and lock off

Wire in the motors

Run "LSU ADJ" *(the aim is to stop at the stop, not hit the stop)*
- Press and hold top button – lift off at open point – "OK" *(M2 Open)*
- Press and hold top button – Lift off at open point "OK" *(M1 Open)*
- Press and hold middle button – Lift off at close point "OK" *(M1 Close)*
- Press and hold middle button – Lift off at close point "OK" *(M2 Close)*

Run "AUTOSET"

Increase N1T and N2T to 25%

Increase SLOW SPEED to 35%

Fit accessories one at a time and test each before moving on

Method Thalia P

Fit the motors and check the end of stroke limits

Close the gates and lock off

Wire in the motors

Run the quick menu – Press OK once

Follow the prompts to "LSU ADJ"

- Press and hold top button – lift off at open point – "OK" *(M1 Open)*
- Press and hold top button – Lift off at open point "OK" *(M2 Open)*
- Press and hold middle button – Lift off at close point "OK" *(M2 Close)*
- Press and hold middle button – Lift off at close point "OK" *(M1 Close)*

Run "AUTOSET"

Increase OPEN FORCE and CLOSE FORCE to 25%

Increase SLOW SPEED to 35%

Fit accessories one at a time and test each before moving on

MD Compliance

Adjust close delay to give 700mm min. between M2 and M1 at closing
Adjust slow speed to cut in at 700mm from closed
Measure force/time at 500mm distance in line with the motor

Thalia P;
Increase close force & slow speed to just below 150N
Libra CLX;
Adjust N2T and SLOW speed to just below 150N

Run a full set of tests
Address all other risks as appropriate