

PHOBOS SERIES

ELECTROMECHANICAL OPERATOR FOR SWING GATES



24V



UL 325
COMPLIANT



COMPATIBLE

• **SMART TECHNOLOGY.**

→ Control unit compatible with the EELink protocol.

• **SAFE USE.**

→ This version powered at 24V has been specially designed for simpler and faster installation in compliance with latest safety standards.

→ Thanks to the obstruction sensing device, the operator reverses motion and prevents damage to people and vehicles in the event of contact.

• **SIMPLER INSTALLATION.**

→ BFT's system of coded magnetic limit switches makes it possible to reduce the complexity of wiring the low-voltage motors: a single wire is carried to the control panel instead of the three or five normally required, thereby increasing the simplicity and speed of installation. Furthermore, the system is able to automatically distinguish between the open limit switch and the closed one and hence prevent wasted time and wiring errors.

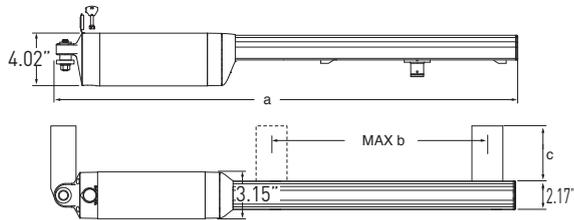
REFERENCE	DESCRIPTION	VOLTAGE	LEAF WEIGHT	LEAF LENGTH
R935246 00002	PHOBOS BT KIT UL/CSA SINGLE	24 V	up to 550 lbs (~250 kg)	up to 10' (3 m)
R935246 00003	PHOBOS BT KIT UL/CSA DUAL	24 V	up to 550 lbs (~250 kg)	up to 10' (3 m)
R935245 00001	PHOBOS BT L KIT UL/CSA SINGLE	24 V	up to 550 lbs (~250 kg)	up to 16'5" (5 m) <small>with electric lock</small>
R935245 00002	PHOBOS BT L KIT UL/CSA DUAL	24 V	up to 550 lbs (~250 kg)	up to 16'5" (5 m) <small>with electric lock</small>
P935066 00004	PHOBOS BT ARM	24 V	up to 550 lbs (~250 kg)	up to 10' (3 m)
P935074 00003	PHOBOS BT L ARM	24 V	up to 550 lbs (~250 kg)	up to 16'5" (5 m) <small>with electric lock</small>

TECHNICAL FEATURES

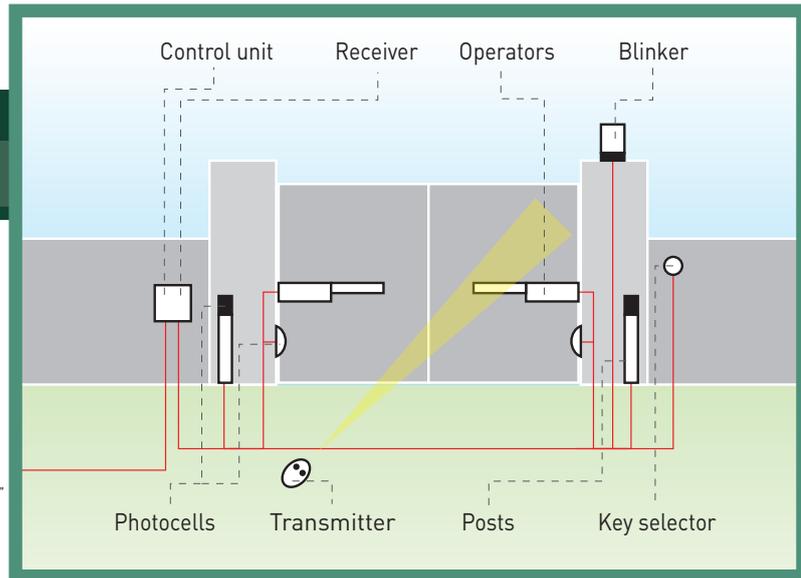
	PHOBOS BT	PHOBOS BT L
CONTROL PANEL	LIBRA UL R	LIBRA UL R
REVERSIBLE/IRREVERSIBLE OPERATOR	irreversible	irreversible
POWER SUPPLY	120 V 60 Hz single-phase	120 V 60 Hz single-phase
ABSORBED POWER	0.05 hp (40 W)	0.05 hp (40 W)
THERMAL PROTECTION	integrated in the control unit	integrated in the control unit
ROD WORKING STROKE	11.6" (295 mm)	16.1" (410 mm)
ROD SPEED	0.78"/sec (20 mm/s)	0.78"/sec (20 mm/s)
OPENING AND CLOSING TIME	14 s	20 s
IMPACT REACTION	torque limiter integrated in the control panel	torque limiter integrated in the control panel
LOCK	mechanical on opening/closing	mechanical on opening/closing
MANUAL RELEASE	release key	release key
OPERATING CYCLE	intensive use	intensive use
ENVIRONMENTAL CONDITIONS	from -4°F (-20°C) to 140°F (+ 60°C)	from -4°F (-20°C) to 140°F (+ 60°C)
DEGREE OF PROTECTION	IP44	IP44
OPERATOR WEIGHT	11lb (~5 kg)	14.3 lbs (~6,5 kg)
DIMENSIONS	see drawing next page	see drawing next page
FUSE VALUE LIBRA BOARD TRANSFORMER	2A T	2A T
FUSE VALUE LIBRA BOARD LOGIC BOARD	1A T	1A T



DIMENSIONS PHOBOS BT / PHOBOS BT L



mm	BT	BT L
a	32.48"	37.13"
max b	11.61"	16.14"
c	2.67"	4.25"



ACCESSORIES



D113701 00001 - LIBRA UL R

• Universal control panel for one or two 24V motors with 1 wire limit switch for each motor. • Quick wiring through plug-in terminal strips. • LCD display for quick programming and easy fault diagnosis. • Crushing prevention by electronic torque self-adjustment. • Built-in 63 remotes rolling code receiver. • Optional serial control management, solenoid electric lock and battery backup.



KELIBRC002U - LIBRA 14 X 16 PRE-WIRED ENCLOSURE

Pre-wired 14 x 16 enclosure box with Libra UL/CSA and 2 -9Amp/h batteries for back-up



P125005 - BT BAT

24 Vdc battery backup system for PHOBOS BT, PHOBOS BT L, IGEA BT it includes a charger board that activates the batteries when power is off and charges the batteries when power is on.



P111323 - SCS

Serial connection interface for LIBRA UL R.



D111761 - ME BT

12/24 Vac electric lock interface for ECB locks with BT operators.



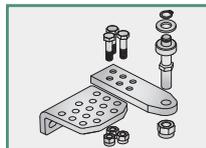
D121017 - ECB SX

Left-hand horizontal electric lock. Also available in right-hand and vertical versions.



D610180 - CLS/52

Release key for LUX, PHOBOS BT, PHOBOS BT L and DEIMOS BT.



I099838 - ARB PP

Adjustable post bracket for PHOBOS BT / PHOBOS BT L



D141297

Spare 3' (1m) cable
Cable for PHOBOS BT 3 core wire



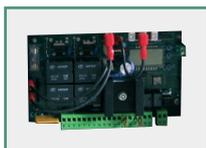
KELIBRC005U - ECOSOL LIBRA PRE-WIRED ENCLOSURE KIT

Libra UL/CSA 24V control board with ECOSOL interface, 2 - 9Amp/H batteries and radio receiver inside a pre-wired 12" x 14" box. Kit contains 10W solar panel and 15' of panel cable.



P121019 - T-BOX

Digital keypad with 10 channels and 100 combinations. Backlit



D111665 00003 - LIBRA UL R BOARD ONLY

Replacement board.