

PHOBOS SERIES

ELECTROMECHANICAL AUTOMATION FOR SWING GATES



• SMART TECHNOLOGY.

- Magnetic limit switches and release, efficient even at low temperatures (PHOBOS N and PHOBOS N BT).
- Only 18 seconds for 90° opening (PHOBOS N and PHOBOS N BT)
- Control unit compatible with the EELink protocol.

• SAFE USE.

- The version powered at 24V has been specially designed for simpler and faster installation in

compliance with the safety standards laid down by the Machinery Directive.

→ Thanks to the antisquashing system, the operator inverts motion and prevents damage to people and property in the event of contact (BT).

• SIMPLER INSTALLATION.

→ BFT's system of coded 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 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.

→ The operator is supplied without cable to reduce the installation times (PHOBOS N and PHOBOS N BT)

| CODE | DESCRIPTION | KIT | VOLTAGE | LEAF WEIGHT | LEAF LENGTH |
|---------------|-----------------|----------|---------|------------------------|----------------------------------|
| P935066 00004 | PHOBOS N BT | | 24 V | up to 2500 N (~250 kg) | up to 1,80 m |
| R935247 00002 | PHOBOS N BT KIT | • | 24 V | up to 2500 N (~250 kg) | up to 1,80 m |
| P935074 00003 | PHOBOS N L BT | | 24 V | up to 2500 N (~250 kg) | up to 5 m (with electric lock) * |
| P935067 00004 | PHOBOS N | NEW 2008 | 230 V | up to 2500 N (~250 kg) | up to 1,80 m |
| R935248 00002 | PHOBOS N KIT | • | 230 V | up to 2500 N (~250 kg) | up to 1,80 m |
| P935073 00003 | PHOBOS N L | | 230 V | up to 2500 N (~250 kg) | up to 5 m (with electric lock) * |

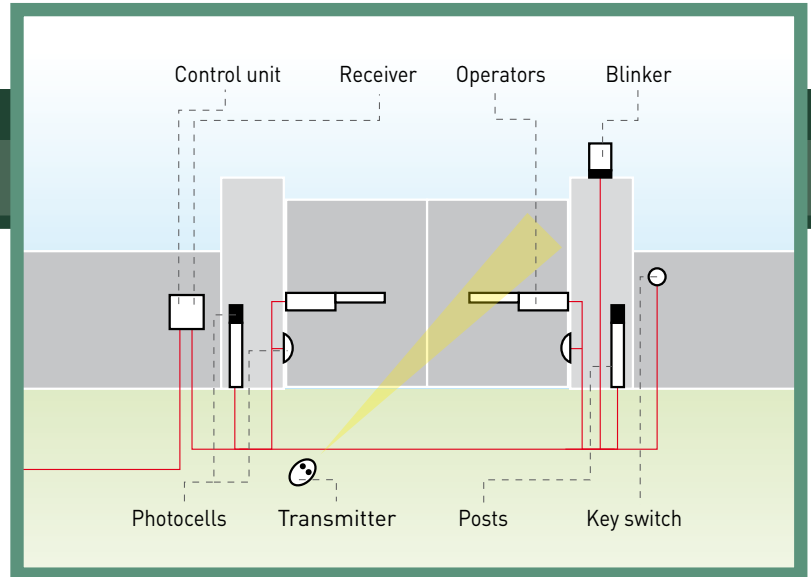
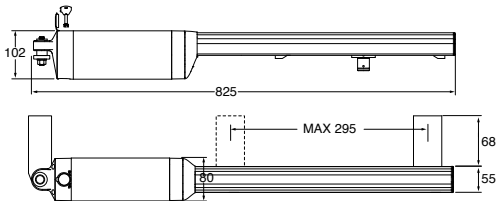
* up to 3m without electric lock

TECHNICAL FEATURES

| | PHOBOS N BT | PHOBOS N L BT |
|----------------------------------|---|---|
| CONTROL PANEL | LIBRA C MA | LIBRA C MA |
| REVERSIBLE/IRREVERSIBLE OPERATOR | irreversible | irreversible |
| POWER SUPPLY | 24 Vdc | 24 Vdc |
| ABSORBED POWER | 40 W | 40 W |
| THERMAL PROTECTION | integrated in the control unit | integrated in the control unit |
| ROD WORKING STROKE | 305 mm | 410 mm |
| ROD SPEED | 20 mm/s | 20 mm/s |
| OPENING OR CLOSING TIME | 18 s | 18 s |
| IMPACT REACTION | torque limiter integrated in the control unit | torque limiter integrated in the control unit |
| TYPE OF LOCK | mechanical on opening/closing | mechanical on opening/closing |
| MANUAL RELEASE | release key CLS | release key CLS |
| OPERATING CYCLE | intensive use | intensive use |
| ENVIRONMENTAL CONDITIONS | from -20°C to + 50°C | from -10°C to + 50°C |
| DEGREE OF PROTECTION | IPX4 | IPX4 |
| OPERATOR WEIGHT | 50 N (~5 kg) | 50 N (~5,0 kg) |
| DIMENSIONS | see drawing | - |
| | PHOBOS N | PHOBOS N L |
| CONTROL PANEL | ALTAIR P (suggested) | ALTAIR P (suggested) |
| REVERSIBLE/IRREVERSIBLE OPERATOR | irreversible | irreversible |
| POWER SUPPLY | 230 V~ ± 10%, 50 Hz single-phase | 230 V~ ± 10%, 50 Hz single-phase |
| ABSORBED POWER | 210 W | 210 W |
| THERMAL PROTECTION | integrated | integrated |
| ROD WORKING STROKE | 305 mm | 470 mm |
| ROD SPEED | 20 mm/sec | 20 mm/s |
| OPENING OR CLOSING TIME | 18 s | 18 s |
| IMPACT REACTION | electronic clutch on control unit | electronic clutch on control unit |
| TYPE OF LOCK | mechanical on opening/closing | mechanical on opening/closing |
| MANUAL RELEASE | release key CLS | release key CLS |
| OPERATING CYCLE | semi intensive use | semi intensive use |
| ENVIRONMENTAL CONDITIONS | from -2 0°C to + 50°C | from -10°C to + 50°C |
| DEGREE OF PROTECTION | IPX4 | IPX4 |
| OPERATOR WEIGHT | 50 N (~5 kg) | 77 N (~7,7 kg) |
| DIMENSIONS | - | - |



DIMENSIONS



ACCESSORIES



D113672 00005 - LIBRA C MA
 • Universal control panel for one or two 24V motors with limit switch with 1 or 2 wires. • Easy to wire also for centralised

connections, thanks to extractable terminals, and the AUTODIAGNOSIS function. • Safety thanks to electronic antisquashing control with amperometric detection. • Complete with incorporated two-channel receiver, ready for serial management, back-up battery and electric lock. • Total control of programming by digital display and three simple buttons. • Easy setting using the AUTOSSET function which allows automatic setting of the operating parameters.



D113703 00002 - ALTAIR P
 • Universal control panel for one or two motors up to 230V/0.5 HP of the electromechanical swing type. • Easy wiring also

for centralized connections, thanks to the extractable terminal blocks and the AUTODIAGNOSTICS function. • Security thanks to motor torque control, regulation of the working time for pedestrians and locked shut maintenance. • Complete with incorporated 2-channel receiver and input for pedestrian opening. • Total control of programming by digital display. • Easy setting by means of three simple buttons for programming logic and parameters. Easy to use on pre-existing systems thanks to total compatibility with ALTAIR.



P125005 - BT BAT
 Thanks to the back-up batteries and battery charger, the BT BAT kit guarantees low voltage operation of the leaf in the event of power failure (LIBRA C MA, HYDRA R).



P111376 - SCS 1
 Serial connection board for QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



P111408 - SCS WIE
 Circuit board for direct connection of wiegand accessories (such as SELETTI, COMPAS SLIM, etc) to the control units QSC D MA, LIBRA C MA, LIBRA C MV, LIBRA C LX, VENERE D, LEO D MA, LEO MV, RIGEL 5 and ALTAIR P.



D111761 - ME BT
 12/24 Vac electric lock board for BT operators.



D111013 - ME
 12 Vac electric lock board.



P123001 00001 - EBP
 230 Vac electric lock with zero stop resistance. Also available in 50 mm, 75 mm versions and at 24V.



D121017 - ECB SX
 Left-hand horizontal electric lock. Also available in right-hand and vertical versions.



N733347 - SFR L
 Adjustable back fixing bracket for PHOBOS N L and PHOBOS N L BT.



N733286 - SFR
 Adjustable back fixing bracket for PHOBOS N and PHOBOS N BT.



D730567 - PPE
 Anchor plate used to weld PHOBOS model brackets



D610180 - CLS
 Release key for LUX B, ORO, SUB, PHOBOS N and PHOBOS N BT models (10-piece pack).



N999404 - CABLE N BT
 Power supply cable for PHOBOS N BT and N L BT. Rolls of 100 m.



N999405 - CABLE N
 Power supply cable for PHOBOS N and N L. Rolls of 100 m.

For system composition and installation refer to the regulations in force in the country where the system is being installed. The indicated data are not binding. BFT reserves the right to make modifications without prior notice.