

For those who use counterweight, spring and sectional overhead doors, BFT proposes a complete range of operators, with solutions made to measure for garage doors of any weight or size. Every model combines aesthetic and functional value, privileging ease of installation and simple maintenance.

SOLUTIONS FOR THE AUTOMATION OF GARAGE DOORS

PHEBE | BERMA | BOTTICELLI | EOS 120



COUNTERWEIGHT AND SPRING-OPERATED OVERHEAD DOORS

LEGEND

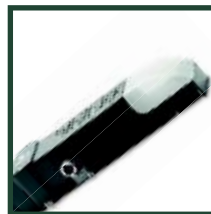
- SEMI INTENSIVE USE ●
- INTENSIVE USE ●
- VERY INTENSIVE USE ●

SPRING-OPERATED OVERHEAD DOORS



| FORCE | BOTTICELLI | EOS 120 |
|--------|------------|---------|
| 60 kg | ● | |
| 120 kg | | ● |

COUNTERWEIGHT OVERHEAD DOORS



| DOOR SURFACE | PHEBE | PHEBE + PHEBE SQ | BERMA |
|---------------------------|-----------|------------------|---------------|
| up to 7 m ² | ● | | |
| up to 9 m ² | | | ● |
| over 10 m ² | | ● | ● 2 operators |
| up to 12,5 m ² | | | ● 2 operators |
| KIT | PHEBE KIT | | |



PHEBE

ELECTROMECHANICAL OPERATOR FOR COUNTERWEIGHT OVERHEAD DOORS

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• **SMART TECHNOLOGY.**

- Management of slowdown, adjustable for opening and closing.
- Control unit compatible with the EElink protocol.

• **SAFE USE.**

- 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.

| CODE | DESCRIPTION | KIT | VOLTAGE | DOOR SURFACE | Q.TY PER PALLET |
|---------------|-------------|-----|---------|--|-----------------|
| P915134 00002 | PHEBE | | 24 V | 7 m ² (1 operator), 10 m ² (2 operators) | 32 |
| P915135 00002 | PHEBE SQ* | | 24 V | 7 m ² (1 operator), 10 m ² (2 operators) | 32 |
| R915126 00002 | PHEBE KIT | ● | 24 V | 7 m ² (1 operator), | 18 |

KIT COMPOSITION on page 24

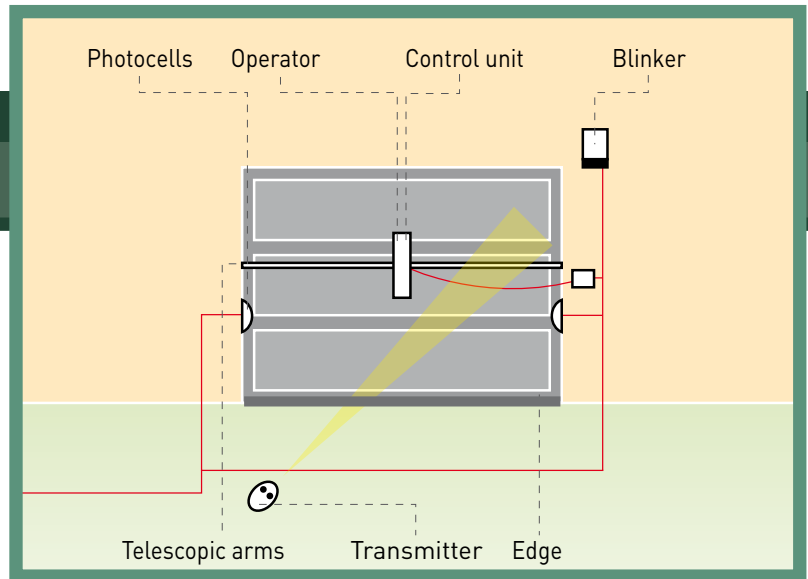
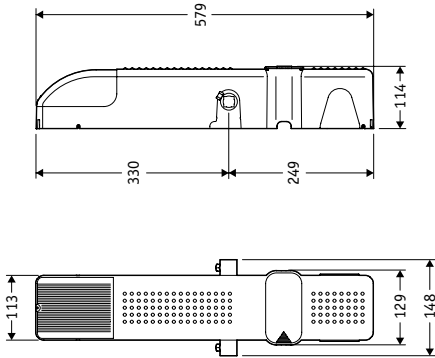
* Automation without control panel

TECHNICAL FEATURES

| PHEBE | |
|--------------------------|---------------------------------------|
| CONTROL PANEL | HYDRA R (incorporated) |
| OPERATOR | irreversible |
| POWER SUPPLY | 230 V- ± 10%, 50 Hz single-phase |
| ABSORBED POWER | 170 W |
| THERMAL PROTECTION | built into control unit |
| OPENING OR CLOSING TIME | from 17 to 20 s |
| IMPACT REACTION | stops and movement is reversed |
| LIMIT SWITCHES | electric, incorporated and adjustable |
| MANUAL RELEASE | knob release |
| OPERATING CYCLE | semi intensive use |
| ENVIRONMENTAL CONDITIONS | from -15°C to + 60°C |
| DEGREE OF PROTECTION | IP30 (IP44) |
| OPERATOR WEIGHT | ~10 kg |



DIMENSIONS (mm)



ACCESSORIES



**D113662 00004
HYDRA R QSG2**
See page 141



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, LIBRA C LX, HYDRA R). For motors with on-board control unit.



P125007 - BT BAT1
Thanks to the back-up batteries and battery charger, the BT BAT1 kit guarantees low voltage operation in the event of power failure (HYDRA R QSG2).



P111323 - SCS
Serial connection board for HYDRA R.



N733112 - CBA
Set of telescopic arms for 1 overhead door, including side drive elements.



N733114 - CBAC
Set of curved telescopic arms, including side drive elements for 1 overhead door.



N733120 - CTA
No. 2 square 20x20 1800 mm long drive tubes. Suitable for 1-operator motor drive.



N733129 - CTA2
No. 2 square 20x20 200 mm long drive tubes. Suitable for 2-operator motor drive.



N733299 - CTBP
Set of drive tubes and fixing bases to complete the PHEBE KIT.



D412377 - BCP
Short base to be welded for PHEBE operator.



N733288 - BLP
Long base to be welded for PHEBE operator.



P115005 - SM1
External manual release with single cable control to be fitted to the cremone bolt. Obligatory if there are no secondary access doors to the premises.



P115001 - SM2
External manual release with double cable control to be fitted to the cremone bolt. Compulsory if there are no secondary access doors to the place.



P121016 - RB
Four channels wall radio control with rolling code.

NEW 2009



P121019 - T-BOX
Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.

BERMA SERIES

HYDRAULIC OPERATOR FOR COUNTERWEIGHT OVERHEAD DOORS



• A MODEL FOR EVERY NEED.

→ Several versions available, with slowdown, with slowdown and external release and with slowdown and automatic release, for automating doors including large ones.

• SMART TECHNOLOGY.

→ Hydraulic locking on closing and internal release (also external in **SEB** versions).

→ Incorporated slowdown device (in the **BERMA R**, **BERMA SEB R** and **BERMA SA R** models).

• SAFE USE.

→ Hydraulic antisquashing system.

| CODE | DESCRIPTION | VOLTAGE | DOOR SURFACE | Q.TY PER PALLET |
|---------------|--------------------|---------|--|-----------------|
| P915007 00001 | BERMA R | 230 V | 9 m ² (1 operator), over 9 m ² (2 operators) | 18 |
| P915105 00001 | BERMA SEB R | 230 V | 9 m ² (1 operator), over 9 m ² (2 operators) | 18 |
| P915009 00001 | BERMA SA R | 230 V | 9 m ² (1 operator), over 9 m ² (2 operators) | 18 |

TECHNICAL FEATURES

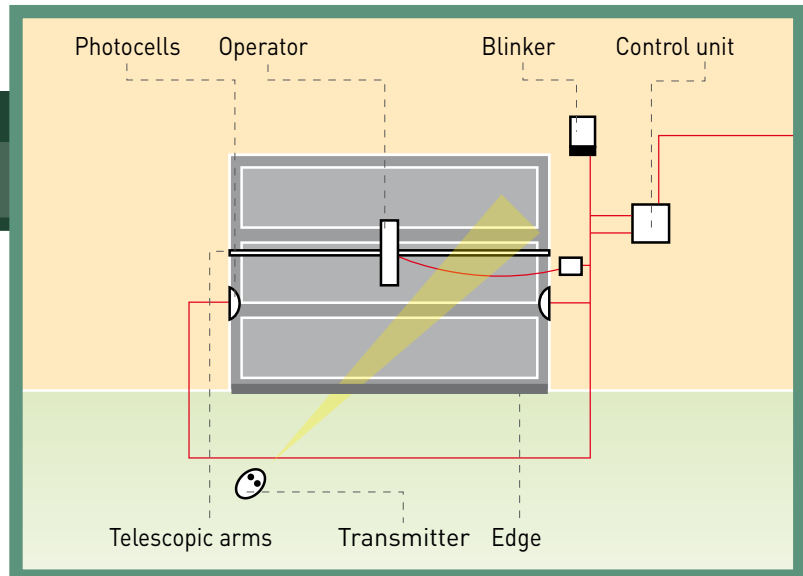
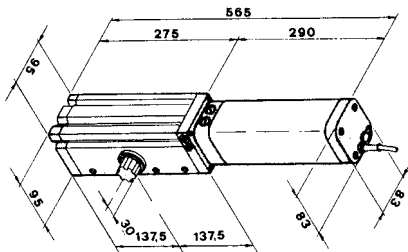
FEATURES OF THE RANGE

SPECIFIC FEATURES

| | | BERMA R | BERMA SEB R | BERMA SA R |
|--------------------------|----------------------------------|--------------|-------------|--------------|
| CONTROL PANEL | RIGEL 5 (suggested) | | | |
| OPERATOR | irreversible | | | |
| POWER SUPPLY | 230 V- ± 10%, 50 Hz single-phase | | | |
| ABSORBED POWER | 250 W | | | |
| THERMAL PROTECTION | built into motor | | | |
| OPENING OR CLOSING TIME | 25 s | | | |
| IMPACT REACTION | hydraulic clutch | | | |
| MANUAL RELEASE | | knob release | release key | knob release |
| OPERATING CYCLE | very intensive use | | | |
| ENVIRONMENTAL CONDITIONS | from -10°C to + 60°C | | | |
| DEGREE OF PROTECTION | IPX5 | | | |
| OPERATOR WEIGHT | ~10 kg | | | |



DIMENSIONS (mm)



ACCESSORIES



D113693 00003
RIGEL 5
See page 141



D113680 00002
ALPHA SD
See page 140



D113706 00002
ALCOR N
See page 140



P111408 - SCS WIE
Circuit board for direct connection of wiegand accessories (such as SELETTTO, 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.



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.



D111704 - SSR5
Traffic light and preheating control board for RIGEL 5 control panel. The operator is able to work at -20° with this accessory.



operator is able to work at very low temperature.

D113050 - SPL
Preheating board for 1 or 2 LUX, SUB, ORO, P4,5-P7, BERMA and E5 operator models. With this accessory the



members, tubes for overhead doors.

N733038 - CA1
Set of accessories for installation of 1 operator. Max length 4 m. Comprising telescopic arms, longitudinal



longitudinal members.

N733039 - CA1C
Set of accessories for installation of 1 operator. Max length 4 m. Comprising curved telescopic arms, longitudinal members.

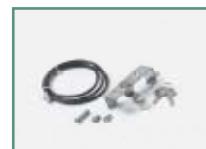


N733040 - CA2
Set of accessories for installation of two operators. Length over 4 m. Comprising telescopic arms, longitudinal members.



longitudinal members, tubes for overhead doors.

N733041 - CA2C
Set of accessories for installation of two operators. Length over 4 m. Comprising curved telescopic arms,



N733020 - SEB
External key release for BERMA, FORB and IGEA LB BT models.



P123007 - SEI
Hydraulic lock for BERMA SA and BERMA SA R models. Including connection pipe.



P115005 - SM1
External manual release with single cable control to be fitted to the cremone bolt. Obligatory if there are no secondary access doors to the premises.



P115001 - SM2
External manual release with double cable control to be fitted to the cremone bolt. Compulsory if there are no secondary access doors to the place.



P121016 - RB
Four channels wall radio control with rolling code.



P121019 - T-BOX
Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.

NEW 2009

BOTTICELLI

ELECTROMECHANICAL OPERATOR FOR SPRING-OPERATED OVERHEAD DOORS

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Dynamic TRAVEL

• SMART TECHNOLOGY.

→ Control unit with self-learning functions.
→ Encoder-type limit switch without references in the chain or in the belt.

• SAFE USE.

→ 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.
→ The limit switch with integrated encoder allows the maximum stopping precision. No

mechanical component of the limit switch system is subject to wear and maintenance.
→ The strength of the track provides greater resistance to stress during assembly and in operation.

• SIMPLER INSTALLATION.

→ The track can be fixed directly to the ceiling without using brackets. The cables are housed inside two grooves formed in the track itself.
→ Working stroke recovery possibility by rotating the motor head 90°.

| CODE | DESCRIPTION | VOLTAGE | FORCE | Q.TY PER PALLET |
|---------------|---------------------|---------|-------------|-----------------|
| P915194 00002 | BOTTICELLI | 24 V | up to 60 kg | 30 |
| P915194 00003 | BOTTICELLI VENERE-D | 24 V | up to 60 kg | 30 |

TECHNICAL FEATURES

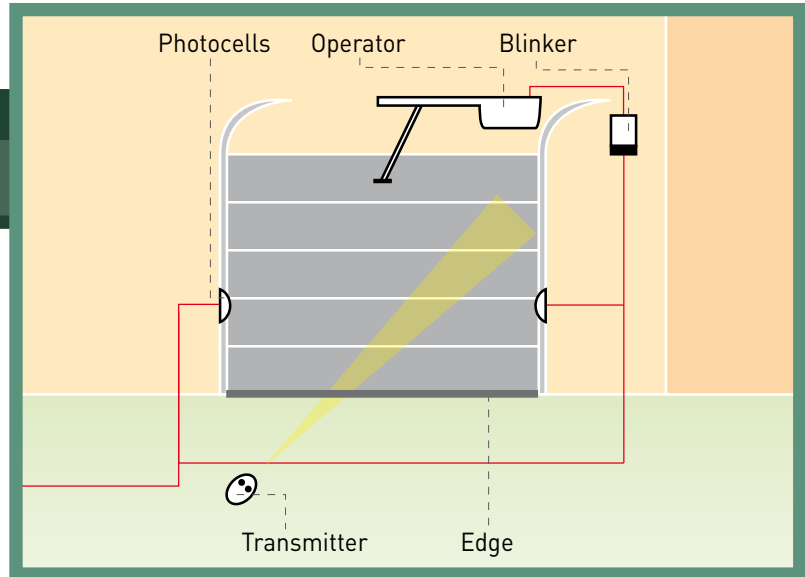
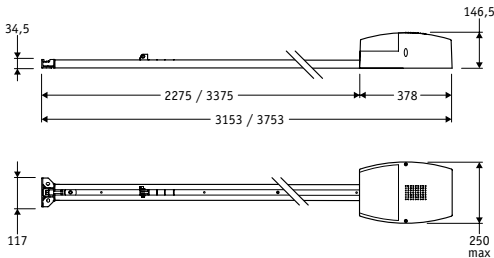
FEATURES OF THE RANGE

SPECIFIC FEATURES

| | | BOTTICELLI | BOTTICELLI VENERE D |
|--------------------------|---|-----------------------|-------------------------|
| CONTROL PANEL | | VENERE (incorporated) | VENERE D (incorporated) |
| OPERATOR | irreversible | | |
| POWER SUPPLY | 230 V- ± 10%, 50 Hz single-phase | | |
| ABSORBED POWER | 236 W | | |
| FORCE | 600 N | | |
| OPENING OR CLOSING TIME | 28 s | | |
| IMPACT REACTION | Stop and reverse on encountering obstacle with dynamic torque control curve | | |
| TYPE OF LIMIT SWITCHES | electronic with encoder | | |
| MANUAL RELEASE | unlocking with rope | | |
| OPERATING CYCLE | intensive use | | |
| ENVIRONMENTAL CONDITIONS | from -15°C to + 60°C | | |
| DEGREE OF PROTECTION | IPX0 | | |
| OPERATOR WEIGHT | ~5 kg | | |



DIMENSIONS (mm)



ACCESSORIES



P115009 00001
BIN CATENA 2900
Chain track for Botticelli, length 2900, working stroke 2400 mm.



P115009 00002
BIN CATENA 3500
Chain track for Botticelli, length 3500, working stroke 3000 mm.



P115009 00003
BIN CINGHIA 2900
Belt track for Botticelli, length 2900, working stroke 2400 mm.



P115009 00004
BIN CINGHIA 3500
Belt track for Botticelli, length 3500, working stroke 3000 mm



P115009 00005
BIN CATENA 2x1450
Chain track divided into two halves for Botticelli, length 2900, working stroke 2400 mm



P115009 00006
BIN CATENA 2x1750
Chain track divided into two halves for Botticelli, length 3500, working stroke 3000 mm



P115009 00007
BIN CINGHIA 2x1450
Belt track divided into two halves for Botticelli, length 2900, working stroke 2400 mm



P115009 00008
BIN CINGHIA 2x1750
Belt track divided into two halves for Botticelli, length 3500, working stroke 3000 mm



P115005 - SM1
External manual release with single cable control to be fitted to the cremone bolt. Obligatory if there are no secondary access doors to the premises.



N733069 - SET/S
External release for insulated sectional and overhead doors up to 50 mm thick.



P115003 - ST
Automatic bolt release for spring-operated overhead doors.



P115002 - BRCT
Adapter arm used to install BOTTICELLI, EOS 120, to counterweight overhead doors.



N999060 - APT
Complete kit for assembly 25 cm from ceiling or directly on the ceiling.



N733391 - PBE
Complete kit to extend the working stroke by 1 mt on EOS and BOTTICELLI



N999370 - TA BIN
Anti-vibration plugs for EOS120 and BOTTICELLI (pack of 4 plugs).



P121016 - RB
Four channels wall radio control with rolling code.



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P121019 - T-BOX
Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.



P125006 - CB EOS
Thanks to the back-up batteries and battery charger, the CB EOS kit guarantees low voltage operation in the event of power failure (VENERE D).

EOS 120

ELECTROMECHANICAL OPERATOR FOR SPRING-OPERATED OVERHEAD DOORS

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• SMART TECHNOLOGY.

- Control unit with self-learning and self-diagnostic functions.
- Encoder-type limit switch without references in the chain.
- Control unit compatible with the EElink protocol.

• SAFE USE.

- 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.

→ The strength of the track provides greater resistance to stress during assembly and in operation.

• SIMPLER INSTALLATION.

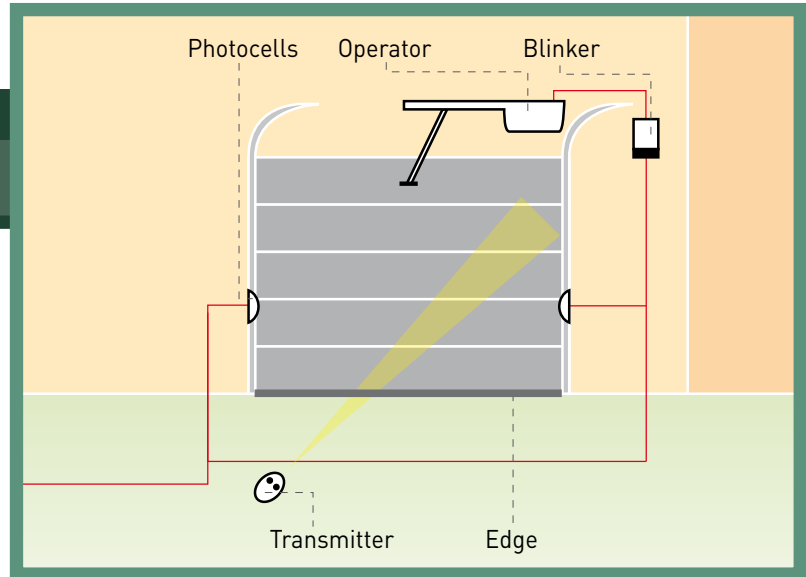
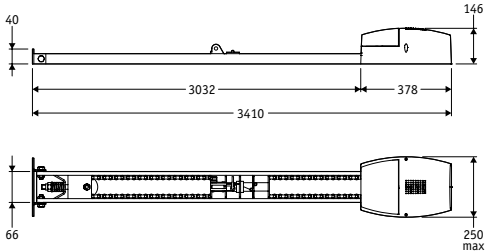
- The track can be fixed directly to the ceiling without using brackets. The cables are housed inside two grooves formed in the track itself.
- Working stroke recovery possibility by rotating the motor head 90°.

| CODE | DESCRIPTION | VOLTAGE | FORCE | Q.TY PER PALLET |
|----------------|-------------|---------|--------------|-----------------|
| P915195 00002S | EOS 120 | 24 V | up to 120 kg | 30 |

| TECHNICAL FEATURES | |
|--------------------------|---|
| EOS 120 | |
| CONTROL PANEL | VENERE D (incorporated) |
| OPERATOR | irreversible |
| POWER SUPPLY | 230 V- ± 10%, 50 Hz single-phase |
| ABSORBED POWER | 240 W |
| FORCE | 1200 N |
| OPENING OR CLOSING TIME | 28 s |
| IMPACT REACTION | Stop and reverse on encountering obstacle with dynamic torque control curve |
| TYPE OF LIMIT SWITCHES | electronic with encoder |
| MANUAL RELEASE | unlocking with rope |
| OPERATING CYCLE | very intensive use |
| ENVIRONMENTAL CONDITIONS | from -15°C to + 60°C |
| DEGREE OF PROTECTION | IPX0 |
| OPERATOR WEIGHT | -8 kg |



DIMENSIONS (mm)



ACCESSORIES



P125006 - CB EOS
Thanks to the back-up batteries and battery charger, the CB EOS kit guarantees low voltage operation in the event of power failure (VENERE D).



P111408 - SCS WIE
Circuit board for direct connection of wiegand ACCESSORIES (such as SELETTO, 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.



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.



**P115010 00001
BIN 120 CATENA 2900**
Chain track for EOS 120, length 2900, working stroke 2400 mm.



**P115010 00002
BIN 120 CATENA 3500**
Chain track for EOS 120, length 3500, working stroke 3000 mm.



**P115010 00003
BIN 120 CATENA 2x1450**
Chain track for EOS 120, length 2x1450, working stroke 2400 mm.



**P115010 00004 - BIN
120 CATENA 2x1750**
Chain track for EOS 120, length 2x1750, working stroke 3000 mm.



N733069 - SET/S
External release for insulated sectional and overhead doors up to 50 mm thick.



P115005 - SM1
External manual release with single cable control to be fitted to the cremone bolt. Obligatory if there are no secondary access doors to the premises.



P115003 - ST
Automatic bolt release for spring-operated overhead doors.



N999370 - TA BIN
Anti-vibration plugs for EOS120 and BOTTICELLI (pack of 4 plugs).



P115002 - BRCT
Adapter arm used to install BOTTICELLI, EOS 120, to counterweight overhead doors.



N999060 - APT
Complete kit for assembly 25 cm from ceiling or directly on the ceiling.



N733391 - PBE
Complete kit to extend the working stroke by 1 mt on EOS and BOTTICELLI



P121016 - RB
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P121019 - T-BOX
Remote control digital pushbutton panel for exterior use, with backlit light-touch keypad.