



NEW
BKV
SLIDING
GATE MOTOR

**THE FINEST ITALIAN
ENGINEERING BUILT TO
STAND THE TEST OF TIME**



CAME 

CAME.COM/UK



BKV THE INDUSTRIAL SLIDING GATE MOTOR REINVENTED

"We set ourselves a huge challenge when designing the BKV as we wanted to exceed the high-level specification that our customers gave us.

With no compromises on quality, reliability, functionality and cloud connectivity, the BKV now represents the new benchmark in industrial sliding gate motors.

We are incredibly proud to deliver such an outstanding result to all the fantastic customers that have helped us make the BKV our best ever sliding gate motor."

Andrea Menuzzo
President, CAME S.p.A.





BKV – FULLY LOADED

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OUR BEST SLIDING GATE MOTOR HAS JUST ARRIVED...

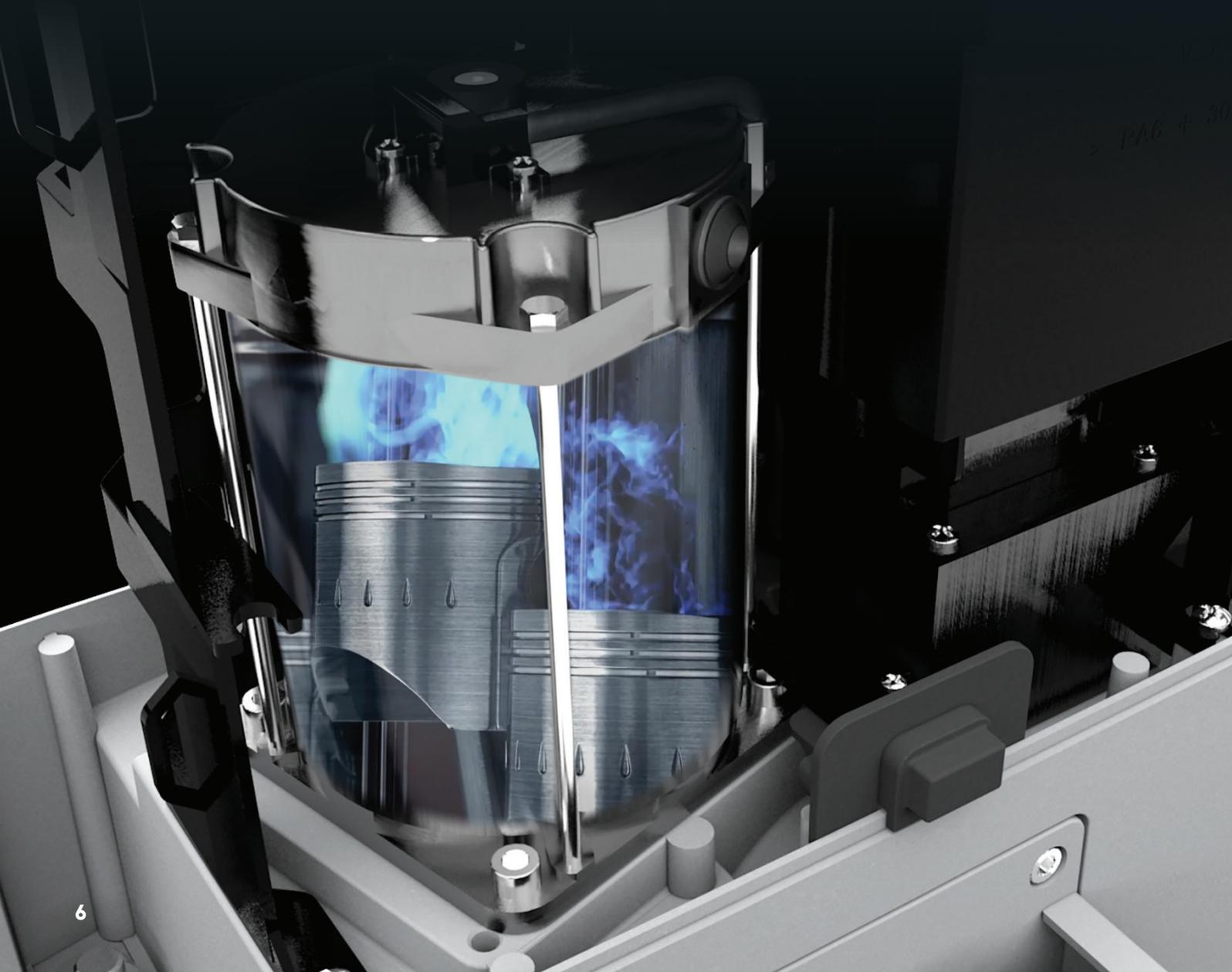


36V OF PURE DC POWER FOR SLIDING GATES FROM 800KG UP TO 2500KG

The brand new BKV has been designed specifically to guarantee efficiency and reliability in adverse weather conditions (such as low temperature, snow and ice that may interfere with the gate mechanics) and daily heavy duty (such as very high open/close cycles per day with scheduled opening times).

OPERATIONAL LIMITS

MODEL CODE	801MS-0350	801MS-0360	801MS-0370
Max. length of leaf (m)	20	20	20
Max. weight of leaf (kg)	800 ~ 1500	2000	2500



NEW BKV ADAPTIVE TORQUE

CONSTANT SPEED CONTROL & ADAPTIVE POWER TO MEET CHANGING CONDITIONS

BKV guarantees efficiency and low maintenance costs, thanks to the continuous torque adaptation.

The ZN8 control panel manages, instant by instant, the motor speed, acceleration and deceleration phases, alongside the absorbed current.

The adaptive torque system constantly evaluates gate weight and friction to detect obstacles and to keep the speed at the pre-set level.

1 SELF-CALIBRATION

All BKV motors have a self-calibration function built into the control board, which can be set up using the new full graphical display.



2 SENSITIVITY

Once the system is calibrated, the installer sets the sensitivity by measuring the thrust of each manoeuvre during operation.



3 PERFECT OPERATION THROUGHOUT THE FULL YEAR

The continuous torque adaptation allows the motor to always be updated to possible friction variations and to perform consistently in every application, during any weather conditions.



4 OBSTACLE DIFFERENTIATION

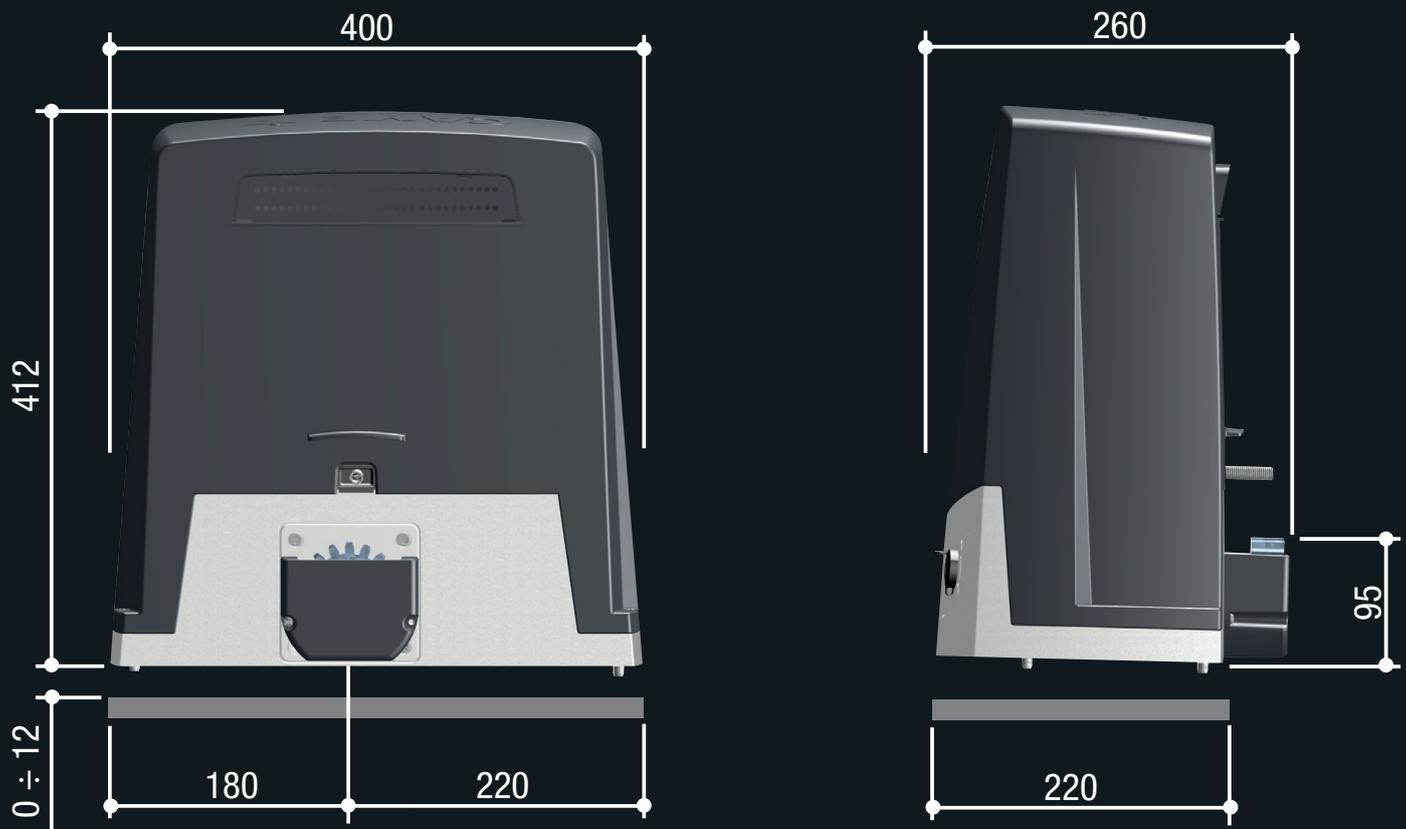
The Adaptive Torque Technology guarantees higher safety in the event of genuine obstacles. The motor can automatically differentiate between genuine obstacles and nuisance minor issues (dirt or small stones on the rail).



**WATCH THE BKV
ADAPTIVE TORQUE VIDEO**

Scan the QR code or visit
www.came.com/uk/adaptive-torque

BKV DIMENSIONS



TECHNICAL SPECIFICATIONS

MODEL CODE	801MS-0350	801MS-0360	801MS-0370
Protection rating (IP)	44	44	44
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC
Power supply to motor (V)	36 DC	36 DC	36 DC
Absorption (A)	8	9	10
Manouvering speed (m/min)	12	12	12
Duty/cycle (%)	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE	HEAVY-DUTY SERVICE
Power (W)	200	250	300
Thrust (N)	800	900	1000
Operating temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55

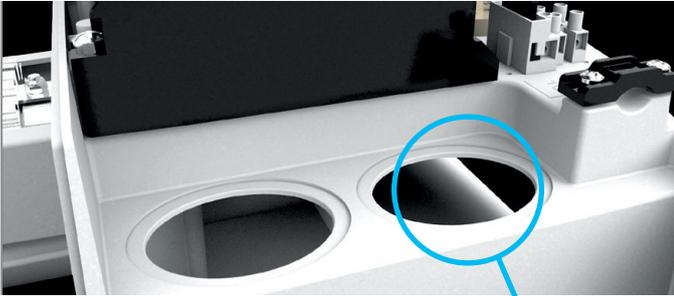
INSTALLER FRIENDLY



FEATURES

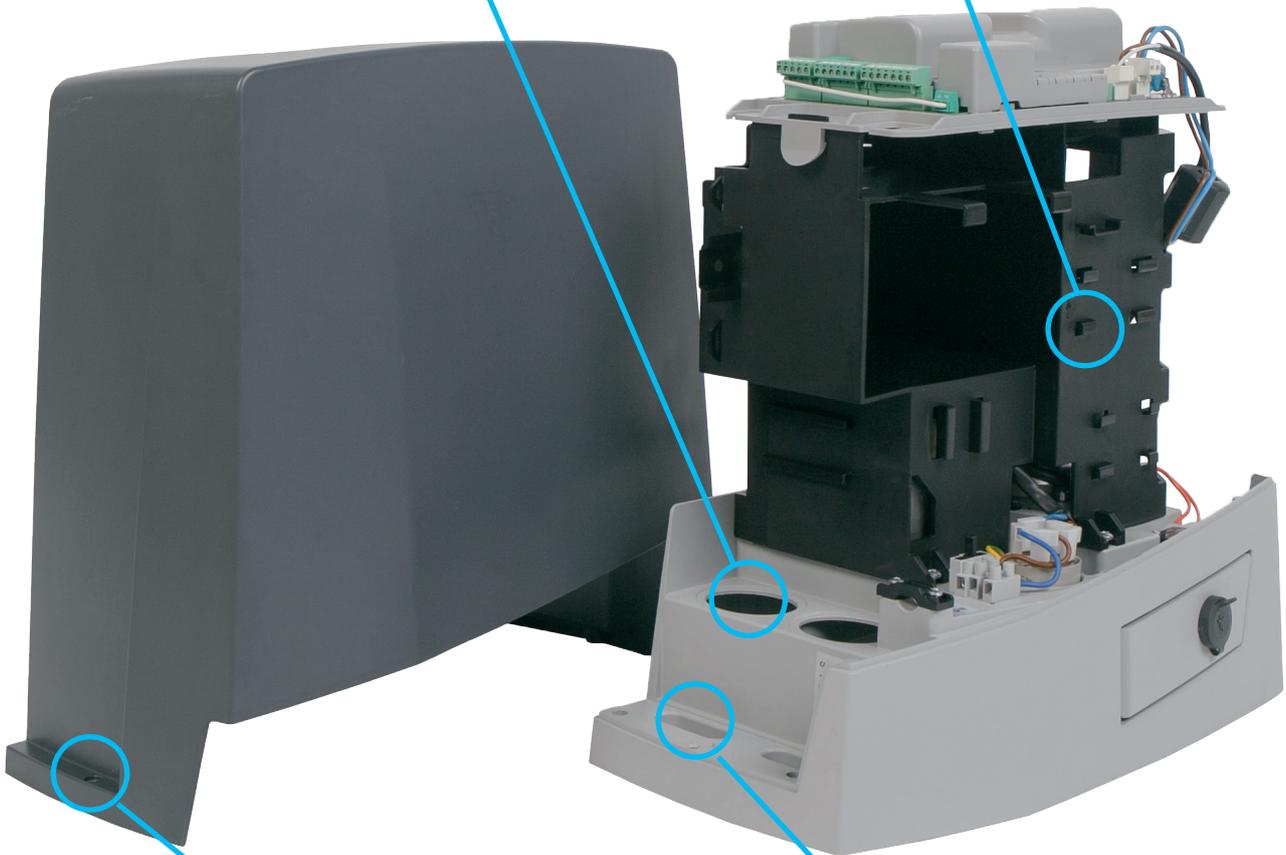
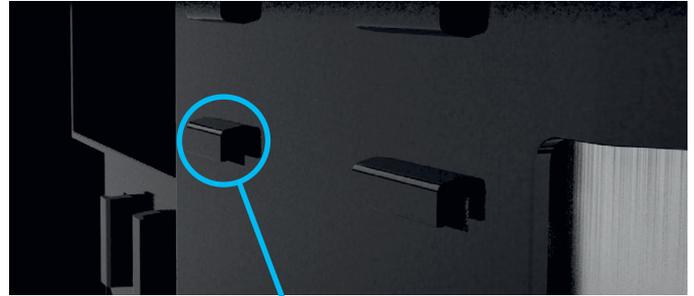
▼ SUPERSIZED CABLE ENTRY POINTS

Localising all cable connections to one side of the motor.



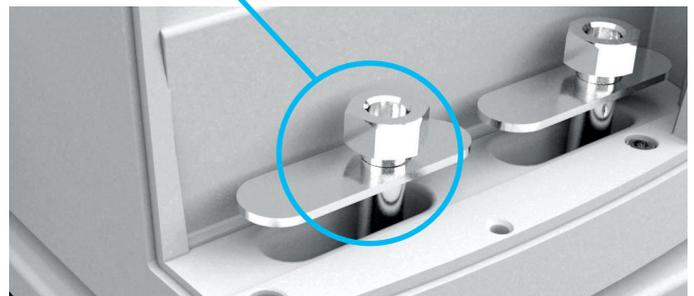
▼ MULTIPLE DIN RAIL MOUNTING POINTS

DIN rail mountings included as standard. Additional DIN rail fittings are available to easily attach the CAME Connect module, loop controllers & other accessories.



▲ CONVENIENT SIDE MOUNTING SCREWS

Mounted vertically for easy access when installed adjacent to vertical posts or frames.



▲ 4 ULTRA STRONG FIXING POINTS

With maximum adjustment for ultimate flexibility.

NEW MANUAL RELEASE SYSTEM

KEY PROTECTED RELEASE LEVER THAT DIRECTLY DISENGAGES THE MOTOR



Safety is always the number one priority, which is why BKV has been designed and developed to eliminate accidents.

Introducing our NEW direct drive robust manual release system which automatically isolates the power once the manual release key has been inserted and unlocked.

The key protected system allows you to isolate the power via a quick release lever which will instantly disengage the motor in the case of an emergency.

Once your adjustments have been made to the motor and your work is complete, re-lock the manual release and the power is automatically restored.



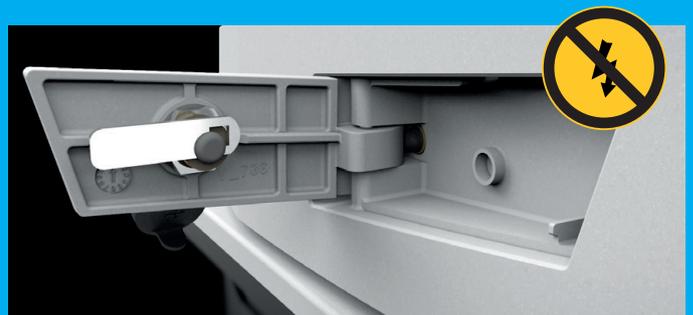
▲ KEY PROTECTED MANUAL RELEASE SYSTEM
To disengage the motor, insert the key into the lock.



▲ THE POWER IS AUTOMATICALLY ISOLATED
Unlocking the release door will automatically isolate the power.



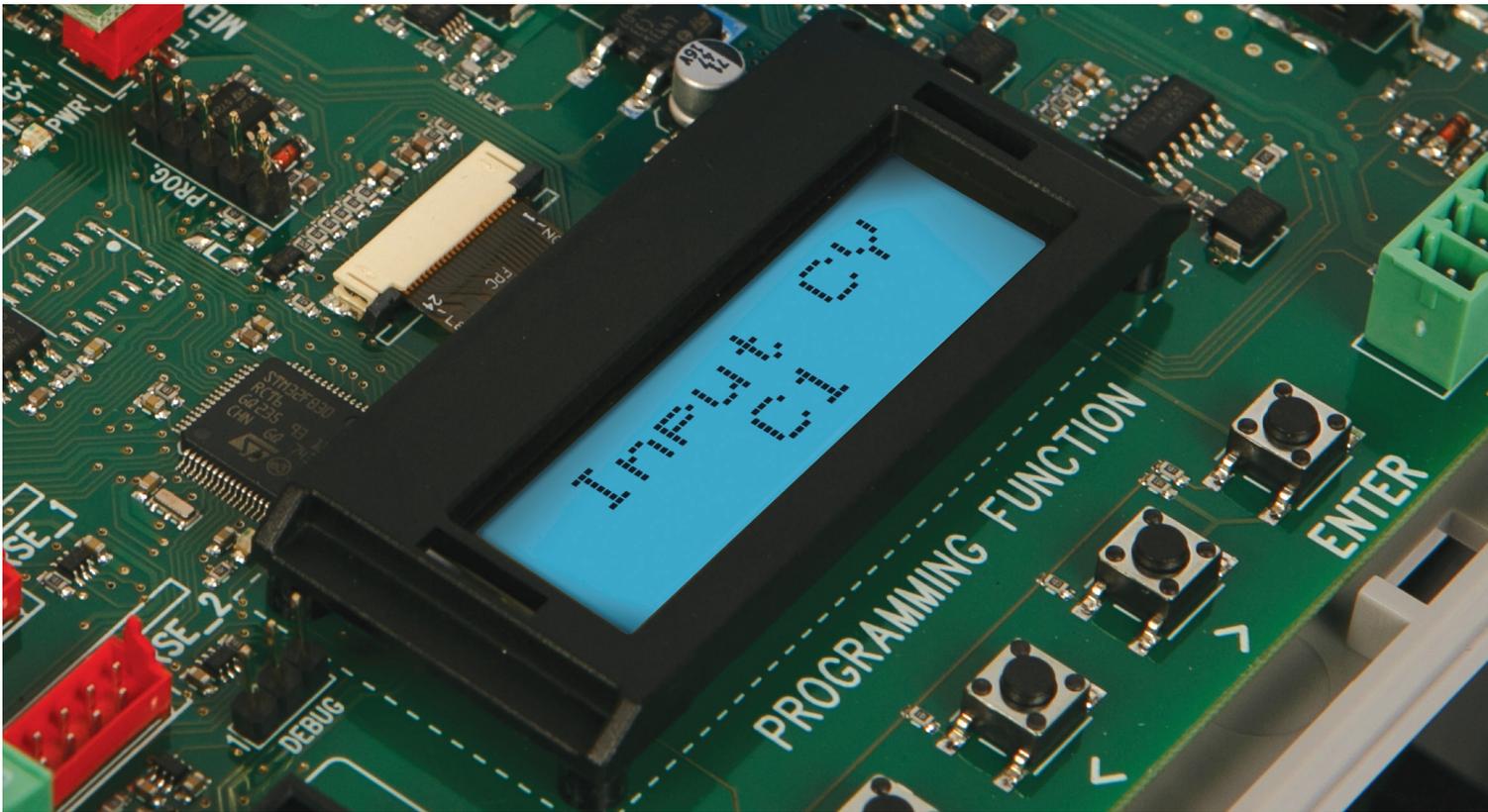
▲ READY FOR RELEASING
With the power safely isolated the manual release is safe to proceed.



▲ DIRECTLY DISENGAGE THE MOTOR
Opening the door will directly disengage the motor, allowing the gate to be manually operated.

FULL BACKLIT GRAPHICAL DISPLAY

QUICKLY SETUP THE MOTOR, **ELIMINATING** THE NEED TO REFERENCE THE MANUAL



All BKV motors include a full graphical display to improve your experience when setting up the motor & performing maintenance.

Designed to simplify your setup, it comes with a blue backlit display and 4 programming buttons for a speedy menu selection.

A setup assistant function is also built-in so you can perform all the standard configurations through a quick 7-step on-screen guided journey, also available in 7 different languages.

This intuitive programming display means it's never been so easy to conduct set up without needing to refer to the technical manual.

BKV motors also include the CAME "F code" mode within the display options if this is your preferred set up method.

Additionally, the BKV graphical display hosts further advanced features such as:

- A manoeuvre counter which can be viewed on the display to show the number of manoeuvres carried out by the system, making system maintenance even easier.
- An opening direction setting is available via the quick function on the display, without having to modify the motor's wiring.
- A graphical display of the cycle calibration process.



NEW ZN8 CONTROL PANEL

The ZN8 control panel offers many new innovative and exciting functions. Expansion cards can be plugged into the control board to unlock a vast range of additional features and installer-friendly functionality.



WIRELESS SAFETY

Fully compatible with the RIO wireless safety system inclusive of safety edge sensors, photocells and operating lamp.



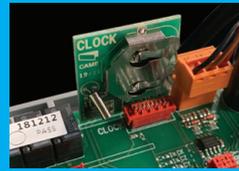
KEYPAD & PROXIMITY DIRECTLY ON-BOARD

The R700 & R800 expansion slots allow the system to be expanded very easily to include CAME's new SEL range of proximity readers and coded keypads which work in conjunction with the on board 250 user access control system.



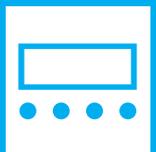
2 RSE SLOTS

For paired mode, allowing easy installation and configuration of double-motor installations using the "master & slave" configuration alongside the CAME Connect cloud system.



ONBOARD TIMER WITH STAND ALONE BATTERY BACK-UP

Innovative timer to manage up to 8 automatically programmed scheduled activations to either the motor or the AUX relay terminals. Perfect for isolating loops or intercoms "out of hours".



FULL BACKLIT GRAPHICAL DISPLAY

Allowing super easy set up and maintenance. Together with step-by-step instructions in 7 languages, the full text display eliminates the need to cross reference the technical manual saving the installer time and money on installation setup & service visits.



4 SAFETY INPUTS

4 configurable safety circuits with 8k2 direct inputs onboard. Compatible with all safety devices such as photocells and resistive safety-edges.



MULTI FREQUENCY CAPABILITY

Provided as standard on all CAME control boards, the frequency card slot allows you to receive the signal from a range of transmitters including CAME's new TOP range of rolling code remotes.

BKV ELECTRONIC FUNCTIONS



MINI ACCESS CONTROL SYSTEM FOR UP TO 250 USERS

The BKV control panel includes an on-board access control system that allows up to 250 users to be added. Users can be by way of rolling code remote control, fixed code remotes, keypad codes via the R800 card, proximity cards or proximity tags. A back-up function allows the installer to easily back-up and restore all the system configuration parameters and all user information to a non-volatile memory chip that is supplied with the motor.



SUPER-FAST WIZARD BASED SETUP

The BKV setup assistant function performs all the standard configurations in a quick 7-step guided procedure. Full step by step instructions are included in 7 different languages. Save valuable time on-site utilising the wizard function that will prompt you for all the critical information enabling the control panel to be set in the fastest and most efficient way.



ON-BOARD TIMER FUNCTION & MULTIPLE PROGRAMS

Say goodbye to the additional timers that you may have previously used for scheduling specific gate opening and closing times. A new built-in timer is provided with the BKV motor allowing the installer to set-up and easily manage up to 8 automatically programmed openings and closings of the motor. With its own timer battery back-up included, the BKV motor will maintain its programs and keep the correct time and date during unexpected power outages.



4 SAFETY INPUTS INCLUDING 8K2 RESISTIVE EDGES

The ZN8 control panel features 4 configurable safety inputs for the easy installation of hard-wired safety devices such as photocells, 8k2 resistive safety edges, mechanical safety edges or any other safety device as required, onto the system. These safety devices can be mixed and matched and can be added into the control panel via terminals CX, CY, CZ, CK.



FULL CONNECTIVITY & CONTROL VIA CAME CONNECT

The BKV motor, as expected with all current CAME motors, can be fully connected to the CAME Connect cloud based platform, which will provide full remote connectivity and control, service and maintenance diagnostics, "over the air" firmware updates, plus a whole load more features, making the BKV the most desirable connected industrial sliding gate motor on the market today.



RIO WIRELESS SAFETY ON-BOARD

In addition to the 4 configurable safety inputs, the BKV motor also includes the RIO System 2.0 wireless safety accessories on board via the 806SS-0040 accessory. This allows for faster installation times compared to traditional hard wired safety devices. RIO accessories include RIO Edge for 8k2 edges, battery powered photocells and a flashing light.



CAME ADAPTIVE-TORQUE CONTROL

The BKV is the first motor from CAME to include the new Adaptive Torque and Speed control. If selected as ON, the BKV will monitor each operation of the gate keeping the correct speed to open and close the gate in the same time. During gate movement the motor will automatically detect the required power and, if necessary, adjust the power to accommodate changing weather conditions.



CONFIGURABLE AUXILIARY RELAY TERMINALS

Terminals B1/B2 are included as an additional relay output on board, which will enable the installer to add any third party devices onto the system, such as garage door operators or security lighting, which can be activated by the same remote control, keypad or proximity card. The B1/B2 relay terminals can also be controlled and activated by the on-board programmable timer.



ADD NEW REMOTES FUNCTION: ON / OFF

Protect future revenue on additional system transmitters and ensure your client's system safety and security by turning off the ability to add additional system remote controls without permission. Used in conjunction with the engineer password protection, you can secure the client's system and simultaneously protect your future revenue for additional transmitter sales.



ENGINEER PASSWORD PROTECTION

The ZN8 control panel features secure engineer password protection, enabling installers to ensure the system set up is protected from unexpected interference and rogue misuse. Password protection eliminates access or changes being made by untrained users.



BKV & CAME KEY

THE PERFECT COMBINATION

The next generation working tool has arrived!

You are no longer required to spend time on your knees, in the pouring rain, configuring the control board of your automation system.

BKV has been designed with a dedicated slot for the new CAME KEY making installation and configuration easier and faster than ever before.

CAME KEY is a local WiFi interface that can communicate directly with your smartphone or tablet, allowing you to manage the configuration of your BKV with no need for an internet connection.



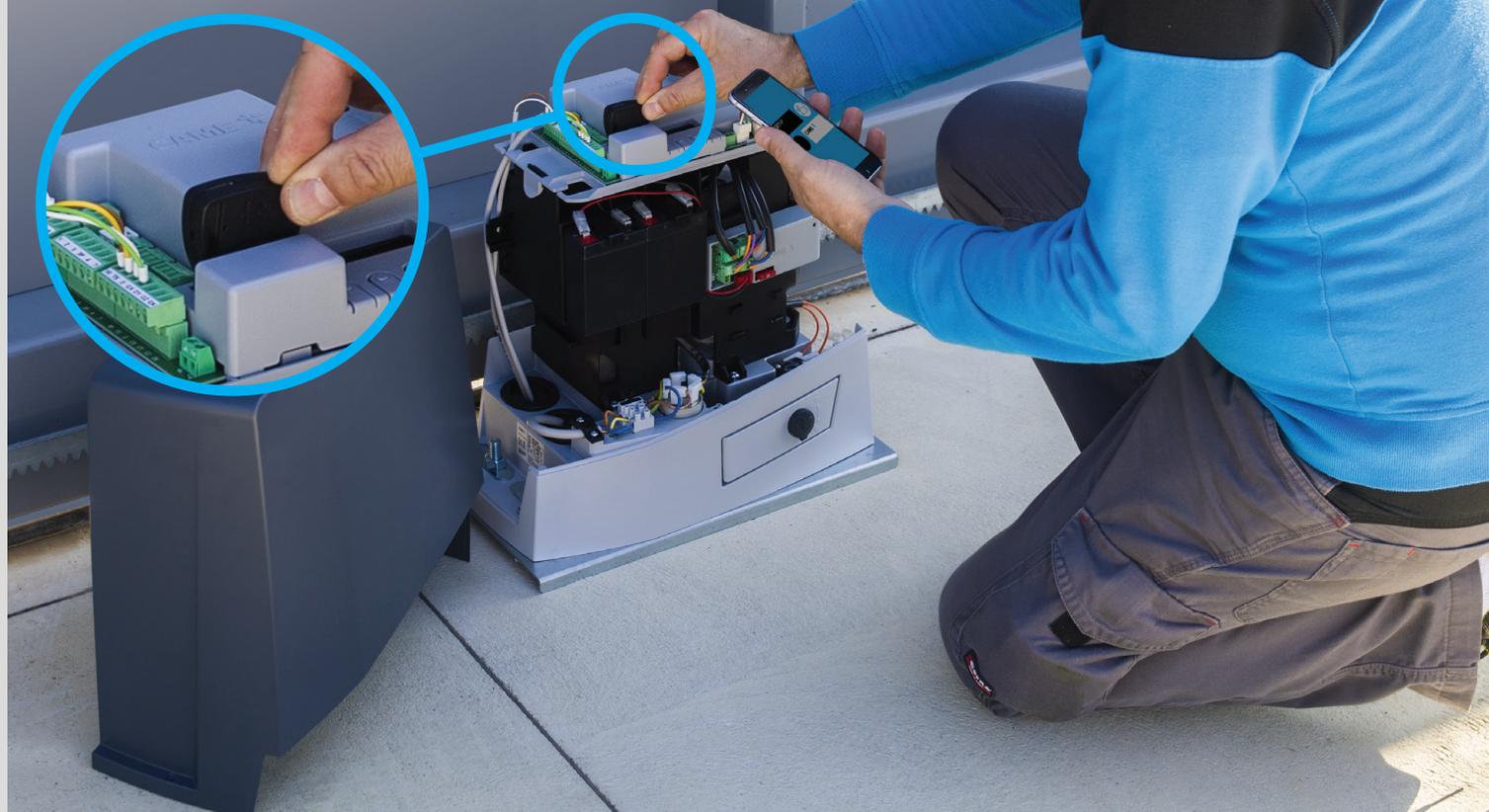
SETUP App
available on:



To use, simply plug CAME KEY into the BKV control board and download the free CAME SETUP App.

Once connected to your smartphone or tablet, CAME KEY allows:

- Fast configuration of your BKV motor.
- Firmware updates to your BKV.
- Management of the transmitters, keypad codes and proximity cards.
- Local and cloud back-up of the BKV configuration, and much more!



BKV & CAME CONNECT

REMOTE CONTROL, REMOTE MONITORING, REMOTE MANAGEMENT



CAMECONNECT

CLOUD CONNECTED TECHNOLOGY

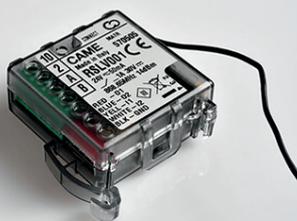
CAME Connect is a robust cloud-based management tool that allows unlimited users to remotely operate the BKV motor at the simple touch of a button, via smartphone using CAME's Automation App.

Available on iOS and Android, the Automation App is free to download from the Apple App Store and Google Play Store. The app has an intuitive and customisable interface to let you manage the system at a click.

- Visualise and monitor the full list of devices connected for each customer with status indicators.
- Configure and control all devices.
- Manage scenarios and schedule operations.
- Check the event log history and status.
- Manage scheduled maintenance of each device.
- Provide your customer with an operating app that allows them to remotely manage their sliding gate operator.
- Save time and money by remotely monitoring the system and making system changes via the powerful website platform.

BKV & CAME CONNECT HARDWARE

CHOOSE BETWEEN WIFI / ETHERNET OR GSM



QBE GATEWAY

- ✓ Super-fast set-up.
- ✓ No need for mobile signal - connects directly to your client's router via either LAN cable or WiFi.
- ✓ DHCP or static IP address - no IP changes, no DDNS, no port forwarding required for standard installation.
- ✓ Can communicate with up to five radio slave modules over the radio frequency connection, up to 100m away.
- ✓ Two models available: **Ethernet/WiFi Automation only** version or **Ethernet/WiFi Full Smart Home** version.

RADIO SLAVE MODULE

- ✓ Can only be used in conjunction with either the QBE or RGSM master gateways.
- ✓ Fitted to the control panel of the BKV motor.
- ✓ Control up to to three CAME BKV operators.
- ✓ Communicates wirelessly up to 100m with the QBE or RGSM.
- ✓ Easy third-party activation & functional switching.
- ✓ Incredibly small size.

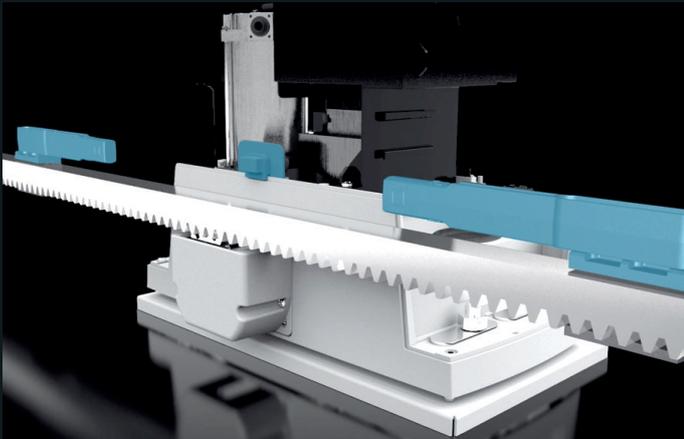
RGSM GATEWAY

- ✓ Flexible solution that works well in isolated or public areas.
- ✓ Uses a GSM SIM card & GPRS (2G) to connect to the internet - very low data usage.
- ✓ Control up to to three CAME BKV operators.
- ✓ Two models available: **STAND-ALONE** version or **MASTER** version for communicating with up to five additional radio slave modules.



NEW MAGNETIC LIMIT SWITCHES

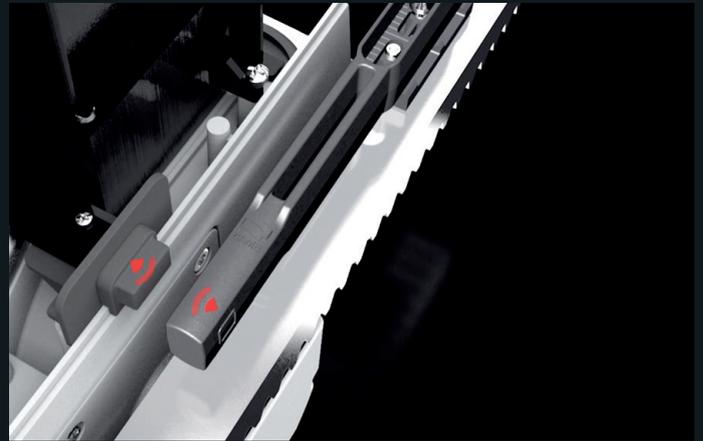
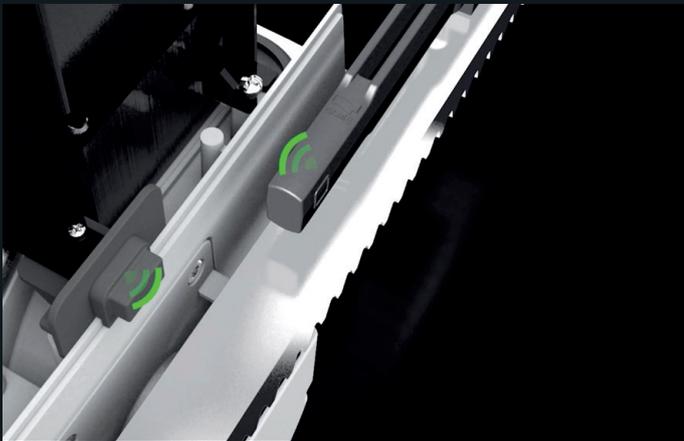
MAGNETICALLY CONTROLLED PRECISION ADJUSTMENT



CAME knows it's really important that installations are set up perfectly for your customers.

The NEW BKV motor is equipped with super-precise magnetic limit switches which are supplied as standard. The limit switch assembly is supplied with a new fixing bracket to the toothed gate rack plus up to 15mm of additional ultra-fine adjustment available to provide a flawless run cycle and accurate opening and closing points.

BKV has been designed specifically to guarantee efficiency and reliability in adverse weather conditions, such as low temperature, snow and ice. The magnetic limits eliminate issues that may normally interfere with regular mechanical limit switches.



BKV PRECISION: FULL ENCODER CONTROL



All movement is carefully monitored and controlled by the in-built encoder system. Encoder control delivers quick and smooth operation throughout the full cycle with built in obstacle detection.

The encoder is externally mounted for ease of access and future servicing requirements.

The encoder system works in perfect harmony with the adaptive torque control to provide a flawless accurate full control of the gate throughout the entire motor movement cycle.

BKV BATTERY COMPARTMENT

LARGE COMPARTMENT SUITABLE FOR BATTERIES OR ACCESSORIES

For the first time, CAME has introduced the NEW battery compartment addition within the BKV motor housing.

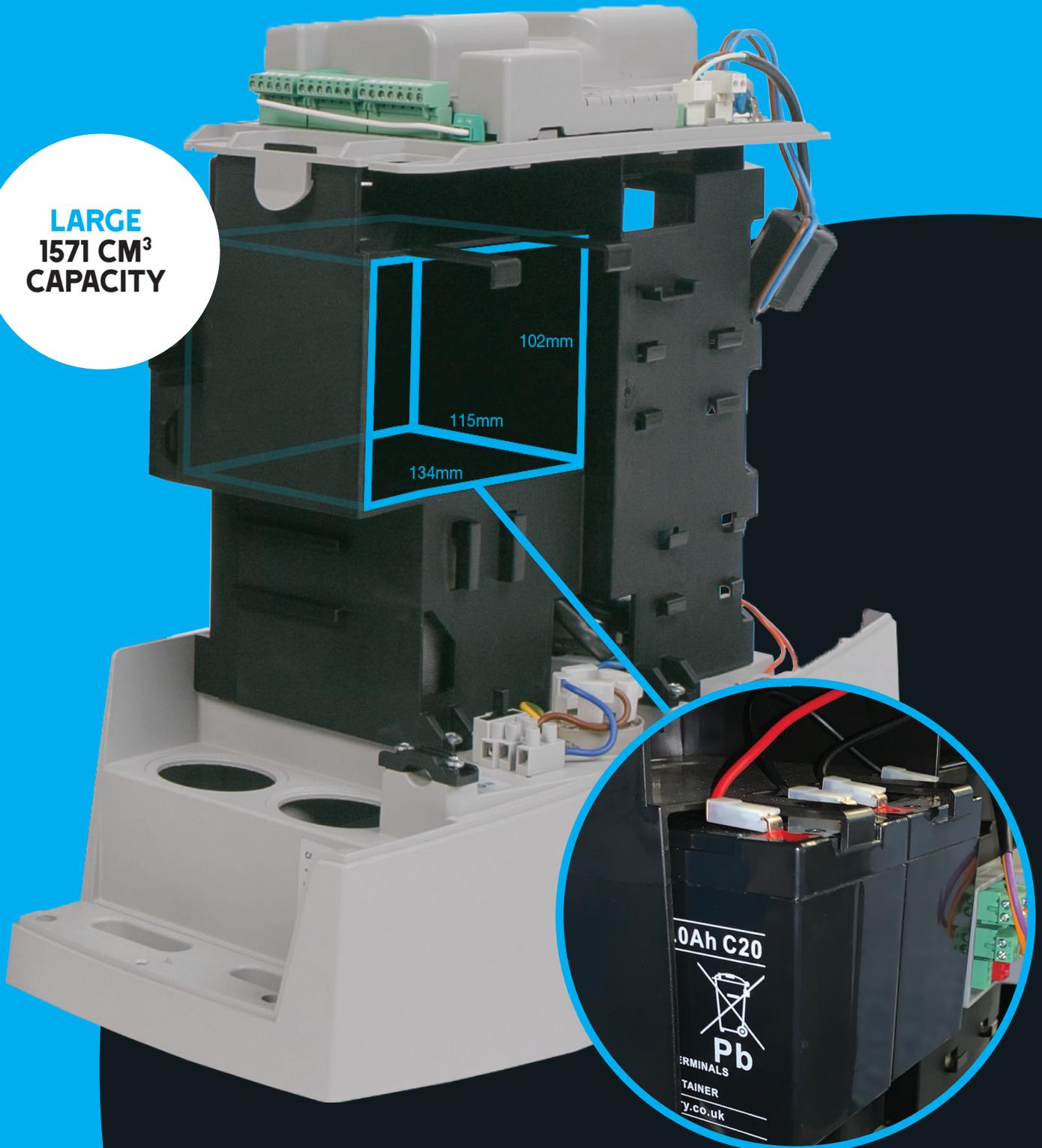
After listening to customer feedback, we've included a fantastic 1571cm³ of practical space for housing any additional accessories or backup batteries.

Compartment Dimensions: 102mm x 115mm x 134mm.

Some of the accessories you could store here include:

- 2 x 7.0ah batteries
- Intercom power supplies
- Additional clock timers
- Network hub
- Pulse modules
- Auxiliary devices

**LARGE
1571 CM³
CAPACITY**



ON-BOARD WIRELESS SAFETY

SIMPLE, FAST & CONVENIENT

RIO System 2.0 is the innovative radio-based safety system that needs no wired connection between the control module and the safety accessory. This feature drastically reduces installation times. Control module, photocells, sensitive safety-edge and flashing light all make up a complete system based on totally wireless transceiver-technology.

All RIO 2.0 devices are battery powered and ensure long-life of service. Accessories include wireless photocells, a wireless edge controller which can connect to 8k2 resistive edges or traditional mechanical edges and to complete the range a battery powered flashing safety light.

RIO 2.0 SYSTEM COMPONENTS:



806SS-0040
Plug-in radio control module for up to 3 wireless devices



806SS-0050
External radio control module for up to 10 wireless devices



806SS-0010
Wireless photocells



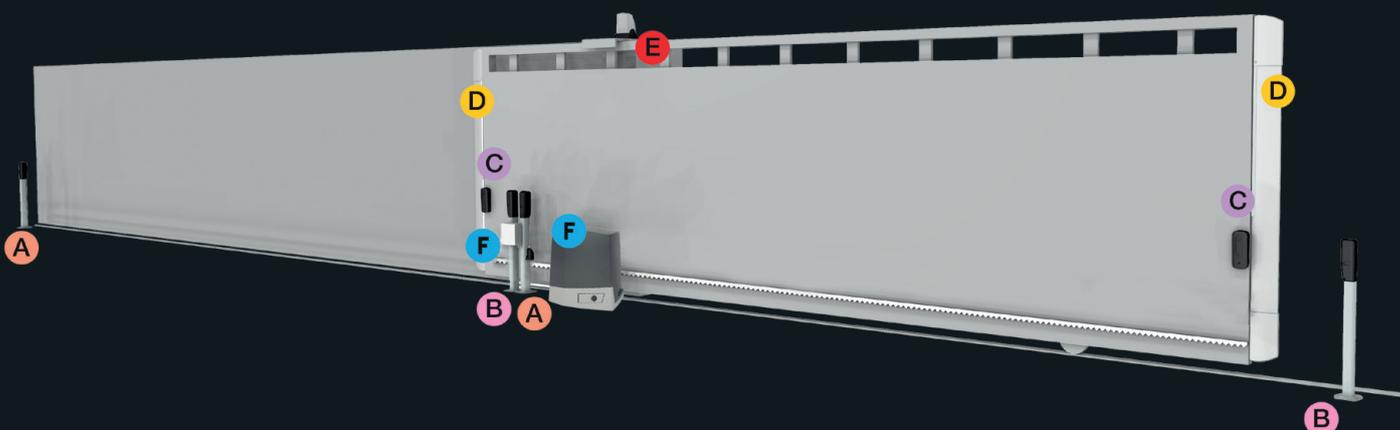
806SS-0020
Wireless 8k2 safety-edge module



806SS-0030
Wireless, battery-operated flashing light

EXAMPLE INSTALLATION

- A** = Transmitter 806SS-0010. **D** = Sensitive safety edge of the DFWN series.
- B** = Receiver 806SS-0010. **E** = Flashing light 806SS-0030.
- C** = Receiver 806SS-0020. **F** = Control modules 806SS-0030.



Code	RIO 2.0 Wireless Accessories	List Price
806SS-0040	RIOCN8WS - Plug-in, radio-based control module for managing up to 3 wireless accessories.	£55.12
806SS-0050	RIOCT8WS - External radio-control module for managing up to 10 wireless accessories.	£106.08
806SS-0010	RIOPH8WS - Pair of wireless, infrared-beam photocells. Infrared range: 10 (m).	£117.52
806SS-0020	RIOED8WS - Wireless module for controlling resistive sensitive safety-edges.	£87.36
806SS-0030	RIOLX8WS - Wireless flashing light.	£93.60

BKV – THE FULL RANGE

Code	BKV Motor Only and Accessories	List Price
801MS-0350	BKV15AGE - Plus High-performance operator with 36 V motor, featuring a control board with graphical display, Adaptive Speed & Torque Technology, four safety inputs, module 4 pinion magnetic limit-switches and clock accessory included, for gates up to 1500 kg in weight and 20 m in length.	£973.00
801MS-0360	BKV20AGE - Plus High-performance operator with 36 V motor, featuring a control board with graphical display, Adaptive Speed & Torque Technology, four safety inputs, module 4 pinion magnetic limit-switches and clock accessory included, for gates up to 2000 kg in weight and 20 m in length.	£1043.00
801MS-0370	BKV25AGE - Plus High-performance operator with 36 V motor, featuring a control board with graphical display, Adaptive Speed & Torque Technology, four safety inputs, module 6 pinion, magnetic limit-switches and clock accessory included, for gates up to 2500 kg in weight and 20 m in length.	£1153.00
806SA-0090	Circuit board for emergency operation and battery charging.	£82.00
806SA-0120	Control card for timer function-control.	£24.00
002RSE	Interface card for controlling two operators or for enabling the CAME Remote Protocol.	£24.96
001R001	Lock cylinder with DIN key.	£20.80
801XC-0130	Adapter plate for first-series BK operators.	£79.00
009CGZ	Module 4 rack made of 22 x 22 mm galvanised steel.	£20.80
009CGZS	Module 4 rack made of 30 x 8 mm galvanised steel with fastening holes and distancers.	£22.88
009CGZ6	Galvanised rack module 6 in 30 x 30 laminated steel.	£45.76
Proximity Card Reader and Keypad		
001R700	Card for decoding and access control with transponder.	£44.72
806SL-0110	SELR1NDG - Surface-mounted transponder selector for cards, keyfobs and TAG with blue backlighting. Grey colour.	£60.26
001R800	Control board for decoding and access-control management via keypad selectors.	£23.92
806SL-0150	SELT1NDG - External Keypad Selector, 12 Keys, with Blue Backlight. Grey colour. Surface mounted. Hard wired using two wire technology.	£76.70
CAME Key and CAME Connect		
806SA-0110	CAME Key - point to point local WiFi gateway to enable smartphone set-up and cloud back-up.	£97.00
806SA-0020	RGSM001S - Stand-alone GSM Gateway module for remote control of CAME automated operators with the CAME CONNECT dedicated system (002RSE module included).	£129.00
806SA-0010	RGSM001 - GSM Gateway module with built-in radio, for remote control of CAME automated operators with the CAME CONNECT dedicated system (002RSE module included). For controlling up to five slave modules.	£149.00
8K06SA-002	QBE Kit, composed of: 806SA-0130 and the 806SA-0040 slave module, or remote control of CAME automated operators with the CAME CONNECT dedicated system (002RSE module included).	£264.00
806SA-0040	RSLV001 - Slave module for operators (002RSE module included).	£95.00

BKV – COMPLETE KITS

Code	BKV Complete Kits	List Price
BKV1500P-KIT	Complete kit for a sliding gate weighing up to 1500 kg / max width 20 m	£1114.00
BKV2000P-KIT	Complete kit for a sliding gate weighing up to 2000 kg / max width 20 m	£1183.00
BKV2500P-KIT	Complete kit for a sliding gate weighing up to 2500 kg / max width 20 m	£1292.00



WATCH THE FULL **BKV** VIDEO



WWW.CAMEBPT.CO.UK/BKV
OR SCAN THE QR CODE

CAME BPT - North

Unit 1B
Sills Road
Willow Farm Business Park
Castle Donington
DE74 2US

Tel: 0115 921 0430

CAME BPT - South

Liberta House Maxted Road
Maylands Ind. Est.
Hemel Hempstead
Herts
HP2 7DX

Tel: 01442 230 800

CAME BPT - Ireland

Unit 9
The Westway Centre
Ballymount
Dublin 12

Tel: +353 (0)1 450 7442



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