SAM

**Gearmotor 24 Vdc
for swing gates
with deep pillars
ideal for residential use**

BENINCA®
TECHNOLOGY TO OPEN

▯◁▷▯ SAM

24VDC

24 Vdc gear motor with articulated arm
for swing gates up to **2.5 m** or **300 kg** per leaf

RESIDENTIAL USE

with built-in control unit, encoder
and battery charger

COMPLETE AND INNOVATIVE

Irreversible gear motor ideal **for swing gates
characterised by large-sized posts**.
The built-in control unit, easily accessible from
above, is equipped with a **115/230 Vac 50/60 Hz
switching power supply, that permits reduced
power consumptions and a long lifespan
of the operator**

RELIABILITY AND INTEGRATED SAFETY

The **encoder** allows proper management of
slowdowns, movement tracking (STC System),
and torque management in relation to the position
of the gate, which guarantees maximum safety

MINIMUM SIZE, MAXIMUM ADAPTABILITY

Suitable for any setting thanks to reduced overall
dimensions (only 170 mm of width)

AESTHETIC AND FUNCTIONAL SOLUTIONS

Perfectly integrated release handle with front access,
and lock covering with vertical scrolling. Possible release
through a personalised key and an adjustable cable
unlock device (accessory) that allows the opening from
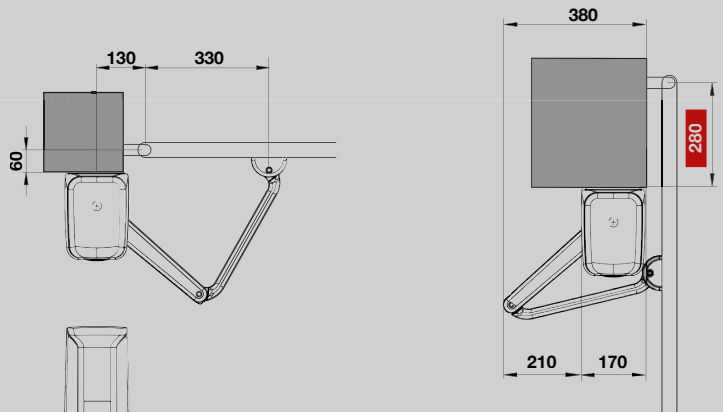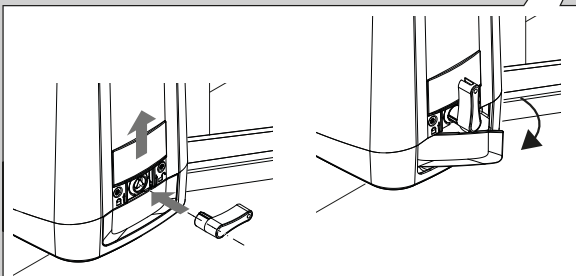the outside in the event of a power failure

CONTROL UNITS:

SAM.E24	CP.SAM
SAM.24	BRAINY24+
	BRAINY24
	HEADY24

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100%
Made in Italy

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MINIMUM AND MAXIMUM INSTALLATION MEASURES

130   330
60

380
280
210   170

170
90
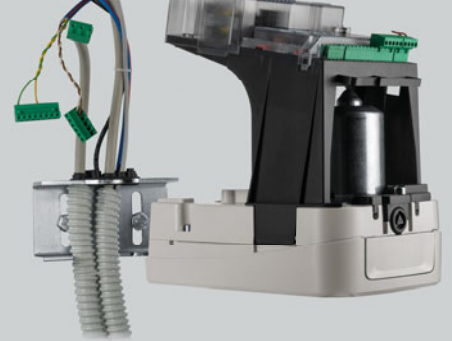280
238
36   360
34
380
34 mm
37

The operator allows **reaching a distance
between the leaf hinge and the surface
of the post equal to 280mm:
the biggest in the market.**
This results in the perfect adaptability
of the actuator in contexts **characterised
by large-sized posts.**
In addition, the 34 mm bracket width
allows mounting on gates even
with only 40 mm posts.

MECHANICAL STOPS ADJUSTABLE FROM ABOVE

ARM WITH BUILT-IN LOCK FOR THE CLOSING, AND CROSS CONNECTION

FIXING BRACKET WITH RUBBER CABLE GLAND (INCLUDED)

ENERGY SAVING

The control unit is equipped with an innovative **system to reduce energy consumption (ESA+), that guarantees an absortion in standby below 1 W**

EASY PROGRAMMING AND CONNECTIVITY

Designed for the integration with **KNX** home automation systems thanks to the **X.BE accessory**. Possible programming through the **BeUP** app by connecting the **PRO.UP interface**

EASY AND QUICK INSTALLATION

The built-in control unit, accessible from above, is placed on a removable support that facilitates the installation and offers a quick access to the mechanical stops. In this way, the actuator can be installed flush with the floor
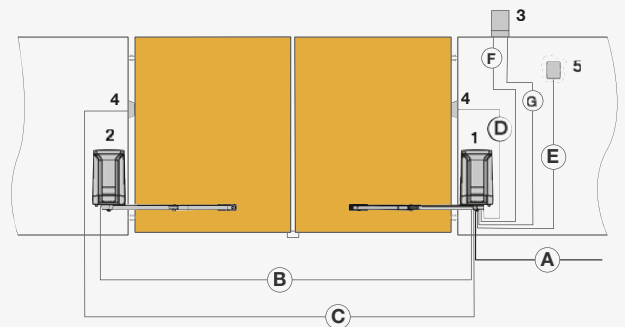
SAFETY AND TECHNICAL SOLUTIONS

By fixing the bracket on the leaf in closed position with the arm completely stretched, the closing lock, integrated in the arm, allows defining the position of the limit switch for the closure. To make finer adjustments, a second lock, to be installed in the motor together with the one for the opening, is available as an accessory

INSTALLATION DIAGRAM

1. GEAR MOTOR WITH INTERNAL CONTROL UNIT
2. GEAR MOTOR
3. FLASHING LIGHT
4. PHOTOCELLS
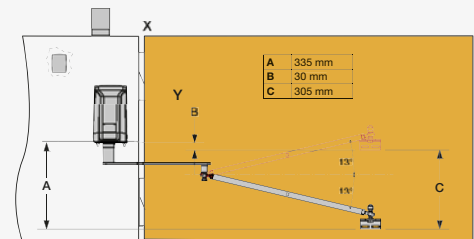**5**. KEY SELECTOR OR DIGITAL KEYPAD

LIST OF CABLES

A	3x1,5mm²
B	2x1,5mm² 3x0,5mm²
C	2x0,5mm²
D	4x0,5mm²
E	4x0,5mm²
F	2x0,5 mm²
G	RG 58

INSTALLATION SCHEME WITH SAM.SN, JOINTED ARM FOR THE INSTALLATION IN SLOPING AREAS

These are the maximum values

The articulated arm accessory is ideal for installations on swing gates on sloping roads, where traditional arm movement would not be possible. PR.SN allows an oscillation of approximately 13°, allowing the movement to be adapted to the slope (up to 22.69%)

A	335 mm
B	30 mm
C	305 mm

TECHNICAL DATA	SAM.24	SAM.E24
Power supply	---	115 Vac / 230 Vac (50-60Hz)
Motor supply	24 Vdc	24 Vdc
Max absorbed current	5 A	1.9 A
Torque	220 Nm	220 Nm
Opening time (90°)	14" (including slowdown)	14" (including slowdown)
Duty cycle	intensive use	intensive use
N° of cycles in 24h	120	120
N° of maximum cycles per hour	40 cycles/h	40 cycles/h
N° of maximum consecutive cycles	40	40
Protection level	IP44	IP44
Mechanical stop	adjustable in opening | closing, optional	adjustable in opening | closing, optional
Built-in control unit	NO	YES
Operating temperature	-20°C /+50°C	-20°C /+50°C
Weight	6 kg	7.9 kg

CP.SAM

CONTROL UNIT POWER SUPPLY
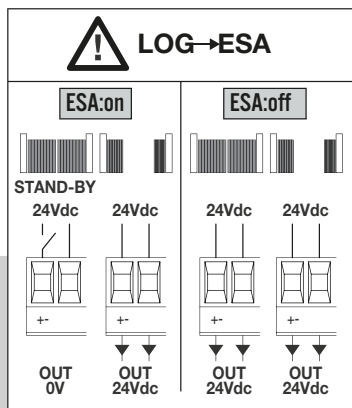115/230 Vac - 50/60 Hz

MOTORS POWER SUPPLY
24 Vdc

Automatic, semi-automatic and deadman's logic | Separate encoder inputs for each motor | Open, close, step by step, pedestrian and stop inputs | Autoset of operating parameters | Separate electronic torque adjustment for each motor | Anti-crushing safety through amperometric detection and encoder management | Electronic torque adjustment with automatic calculation for each point in the stroke (STC SYSTEM) | Separately adjustable slowdowns for each motor | Possibility of encoder or time-based operation even independently between the two motors | Built-in energy saving ESA SYSTEM+ | Advantouch system to configure parameters and manage radio transmitters | Number of manoeuvres | Programming access password | Maintenance warning

INCLINED CONTROL UNIT SUPPORT AND INTEGRABLE BUFFER BATTERY

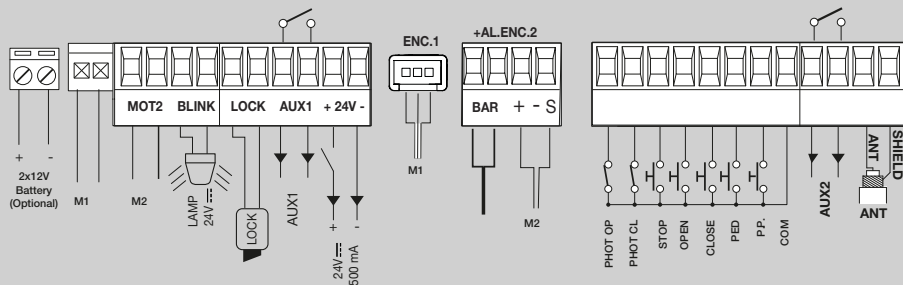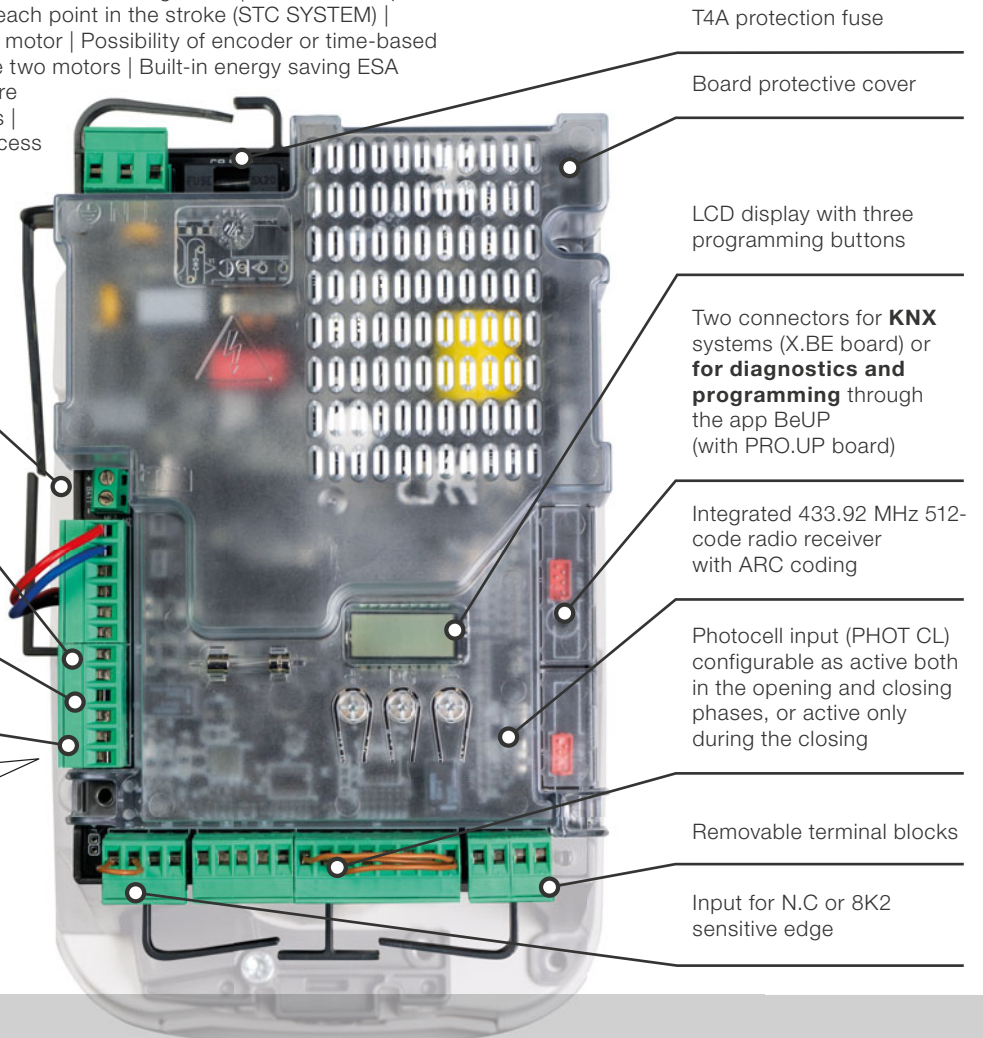Integrated battery charger, compatible with two 12V, 1.2A batteries

Configurable output for 12/24 Vdc electric lock

Two outputs configurable as open gate indicator, courtesy light, area light, second radio channel, photocells test, flashing light, alarm contact

Accessory power supply output, 24 Vdc/0.5 A maximum with logic **ESA System+**

T4A protection fuse

Board protective cover

LCD display with three programming buttons

Two connectors for **KNX** systems (X.BE board) or **for diagnostics and programming** through the app BeUP (with PRO.UP board)

Integrated 433.92 MHz 512-code radio receiver with ARC coding

Photocell input (PHOT CL) configurable as active both in the opening and closing phases, or active only during the closing

Removable terminal blocks

Input for N.C or 8K2 sensitive edge

⚠ **LOG→ESA**

ESA:on	ESA:off
STAND-BY	
24Vdc / 24Vdc	24Vdc / 24Vdc
+- / +-	+- / +-
OUT 0V / OUT 24Vdc	OUT 24Vdc / OUT 24Vdc

ENC.1
M1

+AL.ENC.2
BAR + - S
M2

2x12V Battery (Optional)
M1
MOT2 M2
BLINK
LAMP 24V
LOCK
AUX1
+ 24V -
AUX1
24V 500 mA

PHOT OP
PHOT CL
STOP
OPEN
CLOSE
PED
P.P.
COM
AUX2
ANT
SHIELD
ANT

EASY INSTALLATION

The adjustment of the mechanical stops is facilitated thanks to the removable control unit support

INPUTS AND OUTPUTS

Inputs Separate encoder inputs for each motor (configurable as limit switch on box version), open, close, step, pedestrian and stop and separate inputs for photocell active in open-close and photocell active only in close. Input for N.C. or 8K2 sensitive edge.

Output configurable as open gate warning light or photocell test | Output configurable as second radio channel, service light or zone light

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Benincà's
connectivity

BeMOVE. AN APP FOR END-USERS

BeMOVE is the app that quickly connects your lights, automations, and garden irrigation system. You can control them through access time slots or **GPS positions**.
This way, you can open the gate while you're getting home. With the Event function, you can easily make whatever you want, whenever you want. Even if you're not home.
The **gateway HOOP** is the system's core. It interacts with the automations in mono and bidirectional mode as well as in a radio or wired mode. **g.MOVE** bidirectional transceivers show you the automation status. For example, if you've left the gate open, you can remotely check whether the lights are on. When you're away from home, you can check the automation status and enable them if needed using the **BeMOVE app**. You can also close the awnings if it starts raining.

The future is here.

bemove.beninca.com
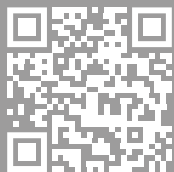
g.MOVE

hoop
GATEWAY

868 MHz module to install on control units for remote control through automation apps.

Dialogue interface between the app and the connected devices.

GET IT ON
Google Play

Download on the
App Store

BeUP.
ESPECIALLY FOR PROFESSIONALS
Working smartly

BeUP is the new application for iOS and Android operating systems, dedicated to professionals. If combined with **PRO.UP**, it allows you to programme all Benincà control units in a fast and easy way, while being comfortably seated in your lorry. Moreover, by connecting **PRO.UP** to the **cloud server**, you can save the installations made for a specific system. For future maintenance, you can also consult the system's details, past interventions and update the firmware.
There's more! The app allows you to program the **BeMOVE** systems, be always updated with the latest products, consult instruction manuals and access training courses.

Choose to do the best work you possibly can.

PRO.UP
Remote programming and diagnostics interface.

SAM.BA

Articulated arm.

SAM.BS

Sliding arm.

SAM.SN

Articulated arm for sloped gates.

SAM.STOP

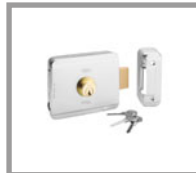Additional mechanical stop. **Package of 2 pcs.**

SAM.LOCK

Lock with customised key.

SAM.SE

Externally fitted anti-intrusion cable unlock device which allows the gate to be unlocked from outside.

DU.V96

12 Vac/dc vertical electric lock, supplied with counterplate. Permits internal/external release.

DU.V90

12 Vac/dc horizontal electric lock, supplied with counterplate. Permits internal/external release.

DU.9990

Covering plate for DU.V90.

ID.TA

Warning board.

IRI.TX4VA

4-channel transmitter with Advanced Rolling Code and Rolling Code.

IRI.TX4AK

4-channel transmitter with Advanced Rolling Code and Fixed Code.

IRI.LAMP

Flashing white light, 20÷255 Vac/dc with integrated antenna.

IRI.KPAD

Battery operated wireless vandal-proof digital keypad with alert buzzer and backlit buttons. Triple coding: Rolling Code, Programmable Code and Advanced Rolling Code. 254 memorisable codes.
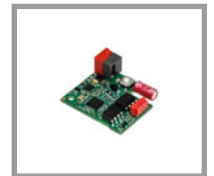
IRI.CELL

Pair of vandal-proof metal covers for PUPILLA/PUPILLA.T photocells, comprising front and rear shells with concealed screw. They can maintain perfect orientation over 180°.

PUPILLA

Pair of photocells adjustable to 180°. Option to synchronise up to 4 pairs, 24 Vac/dc power supply. Easy adjustment through a LED that signals optimal alignment. Compact size: 36x110x35 mm

SAM.CB

Brackets kit for installable batteries on board. **Package of 5 pcs.**

X.BE

Electronic interface board between the KNX communication system and Benincà automation devices.