EU DECLARATION OF CONFORMITY AND DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINE

Declaration in accordance with Directives: 2014/35/UE (LVD); 2014/30/UE (EMC); 2006/42/CE (MD) ANNEX II, PART B

The manufacturer V2 S.p.A., headquarters in
Corso Principi di Piemonte 65, 12035, Racconigi (CN), Italy

Under its sole responsibility hereby declares that:

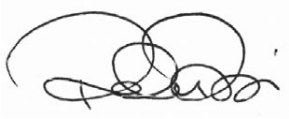
the partly completed machinery model(s):
UG MEDIUM 3500 24
UG MEDIUM 3500 230
UG MEDIUM 3500LC 230

Description: electromechanical actuator for gates

- is intended to be installed on gates, to create a machine according to the provisions of the Directive 2006/42/EC. The machinery must not be put into service until the final machinery into which it has to be incorporated has been declared in conformity with the provisions of the Directive 2006/42/EC (annex II-A).
- is compliant with the applicable essential safety requirements of the following Directives:
  Machinery Directive 2006/42/EC (annex I, chapter 1)
  Low Voltage Directive 2014/35/EU
  Electromagnetic Compatibility Directive 2014/30/EU
  Directive RoHS3 2017/2102

The relevant technical documentation is available at the national authorities' request after justifiable request to:
V2 S.p.A., Corso Principi di Piemonte 65, 12035, Racconigi (CN), Italy

The person empowered to draw up the declaration and to provide the technical documentation:
Roberto Rossi
Legal representative of V2 S.p.A.
Racconigi, il 01/03/2024



IMPORTANT REMARKS

V2 S.p.A. has the right to modify the product without previous notice; it also declines any responsibility to damage or injury to people or things caused by improper use or wrong installation.
m Please read this instruction manual very carefully before installing and programming your control unit.

- This instruction manual is only for qualified technicians, who specialize in installations and automations.
- The contents of this instruction manual do not concern the end user.
- Every programming and/or every maintenance service should be done only by qualified technicians.

AUTOMATION MUST BE IMPLEMENTED IN COMPLIANCE WITH THE EUROPEAN REGULATIONS IN FORCE:

EN 60204-1 (Machinery safety. electrical equipment of machines, part 1: general rules)

EN 12445 (Safe use of automated locking devices, test methods)

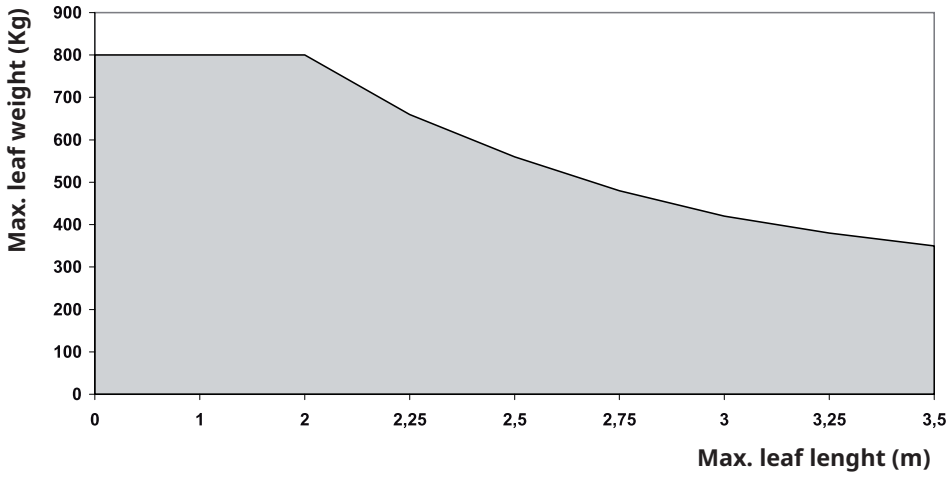
EN 12453 (Safe use of automated locking devices, requirements)

- The installer must provide for a device (es. magnetotermical switch) ensuring the omnipolar sectioning of the equipment from the power supply.
  The standards require a separation of the contacts of at least 3 mm in each pole (EN 60335-1).
- The plastic case has an IP55 insulation; to connect flexible or rigid pipes, use pipefittings having the same insulation level.
- Installation requires mechanical and electrical skills, therefore it shall be carried out by qualified personnel only, who can issue the Compliance Certificate concerning the whole installation (Machine Directive 98/37/EEC, Annex IIA).
- The automated vehicular gates shall comply with the following rules: EN 12453, EN 12445, EN 12978 as well as any local rule in force.
- Also the automation upstream electric system shall comply with the laws and rules in force and be carried out workmanlike.
- The door thrust force adjustment shall be measured by means of a proper tool and adjusted according to the max. limits, which EN 12453 allows.
- We recommend to make use of an emergency button, to be installed by the automation (connected to the control unit STOP input) so that the gate may be immediately stopped in case of danger.
- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised do not play with the appliance.

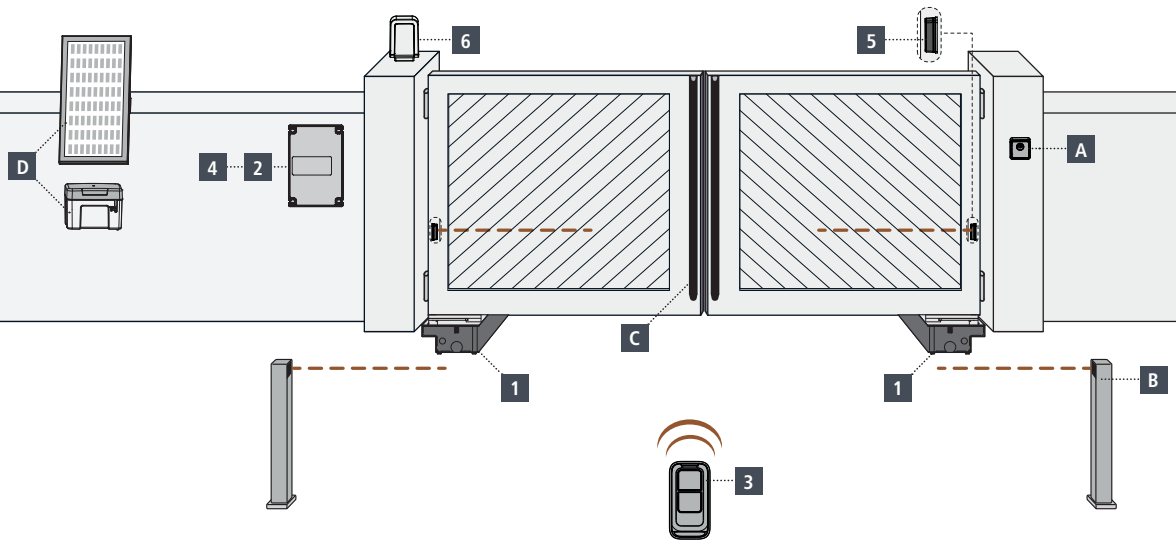
TECHNICAL DATA

		UG SERIES-24V	UG SERIES-120V	UG SERIES-230V	UG SERIES-230V-S
Max. leaf lenght*	m x Kg	2 x 600 2,5 x 500 3 x 400 3,5 x 350	2 x 800 2,5 x 550 3 x 400 3,5 x 350	2 x 800 2,5 x 550 3 x 400 3,5 x 350	2 x 800 2,5 x 550 3 x 400 3,5 x 350
Power supply	V / Hz	24	120 / 60	230 / 50	230 / 50
Idling current	A	1	3	1,5	1,5
Maximum current absorption	A	15	4,8	2,4	2
Maximum power	W	-	550	550	460
Nominal power	W	230	350	350	350
Capacitor	µF	-	35	14	14
Opening time (90°)	s	15 ÷ 25	15	17	28
Maximum torque	N m	320	320	320	300
Working temperature	°C	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Thermal protection	°C	-	150	150	150
Working cycle	Cycles/hour	96	32	32	32
Motor weight	Kg	11,5	11	11	11
Protection	IP	67	67	67	67

*** WARNING: if it is installed the accessory device for opening up to 180° (code 162218), the maximum length of the wing is 2,5m for a maximum weight of 400Kg**



INSTALLATION LAYOUT



COMPONENTS

1. Motor
2. Control unit
3. Transmitter
4. Receiving module
5. Photocells
6. Flashing light

ADDITIONAL ACCESSORIES

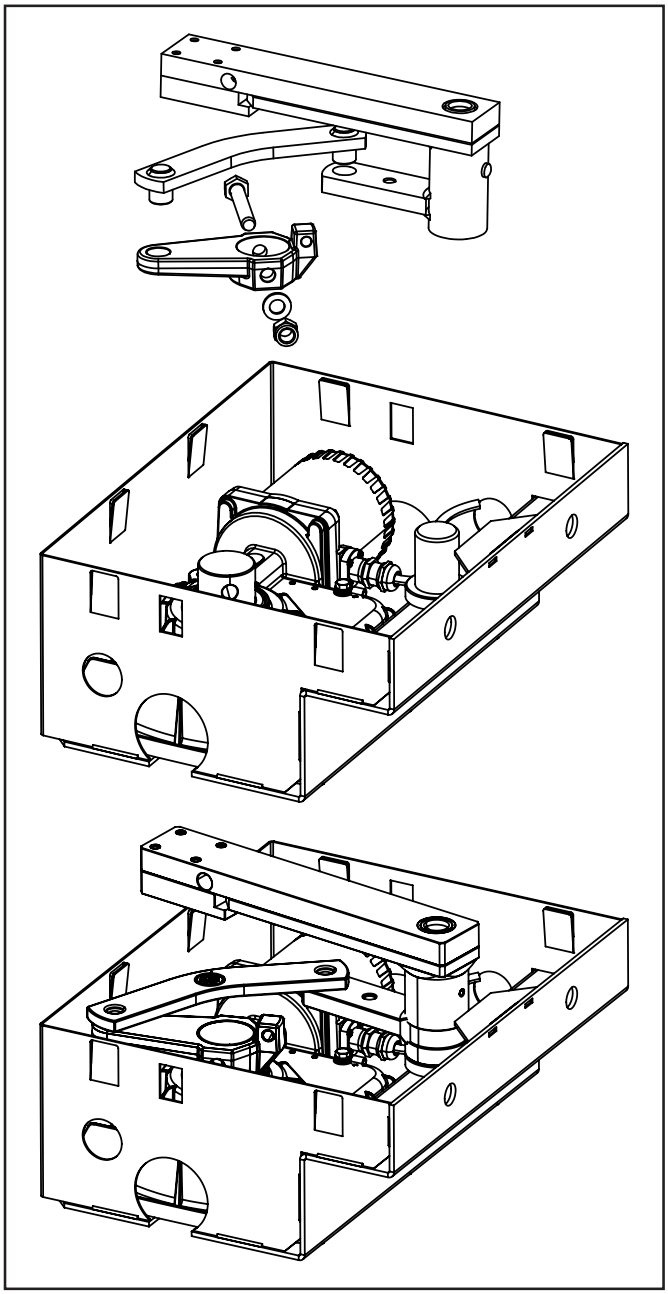
A. Key switch
B. Pillar photocells
C. Safety edges
D. Solar power system

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply 230V	3G x 1,5 mm^2	3G x 1,5 mm^2	3G x 2,5 mm^2
Photocells (TX)	2 x 0,5 mm^2	2 x 0,5 mm^2	2 x 0,5 mm^2
Key switch	4 x 0,5 mm^2	4 x 0,5 mm^2	4 x 0,5 mm^2
Photocells (RX)	2 x 0,5 mm^2	2 x 0,5 mm^2	2 x 0,5 mm^2
Flashing light	2 x 1,5 mm^2	2 x 1,5 mm^2	2 x 1,5 mm^2
Antenna (integrated into the flashing light)	RG174	RG174	RG174
K ECO-24 (accumulator unit)	2 x 1,5 mm^2	-	-
K ECO-24 (solar panel)	2 x 1 mm^2	-	-

PREPARATORY STEPS

The new series of actuadors UG SERIES, has been devised to serve gates up to 800 Kg with leaf up to 3 meters wide (look at the table technical data). Before proceeding with the installation, please make sure that your gate opens and closes freely, and that:

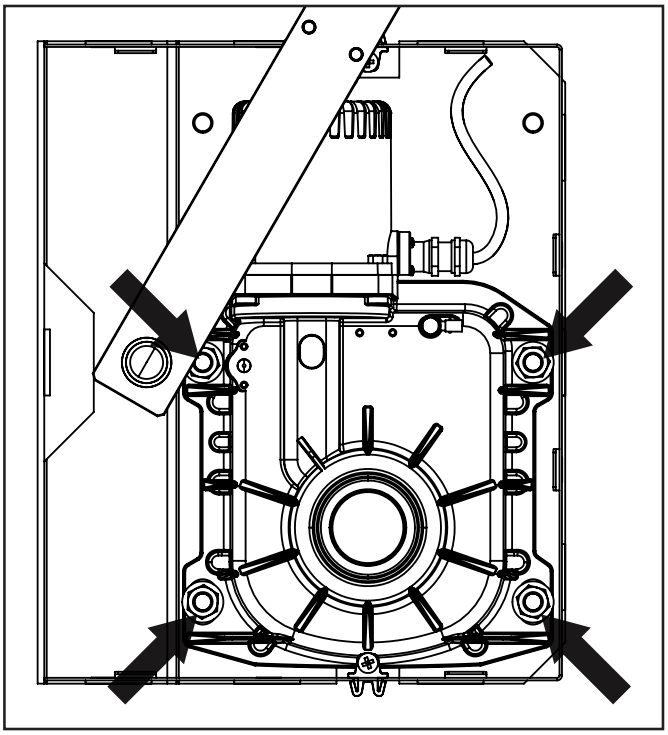
- Hinges and pins are in optimum condition and properly greased.
- No obstacles are within the moving area.
- There is no friction with the ground or between the leaves.
- The stop limit switch must be installed inside the foundation box (see paragraph about Installation of the stop limit switches)



INSTALLING THE MOTOR REDUCER

1. Place the motor reducer gear unit inside the foundation box.

2. Fix the motor reducer in place inside the foundation box by tightening the 4 nuts.



3. Mount the motor connecting rod on the motor drive shaft and fix the screw in place using the corresponding self-locking nut.

4. Connect the motor connecting rod to the control rod by means of the elbow lever.

5. Connect the motor to the control unit, following the instructions in the following paragraph.