### Manual Instruction of 16039-B

### **Specifications**

Receiver

Input Voltage: AC110V-250V 50HZ/60HZ Motor Voltage: AC110V-250V 50HZ/60HZ

Protective Tube: 250V 10A Output Power: 1000W Temperature: -20℃-65℃

Remote

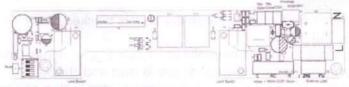
Working Voltage: Black Type(with 4 keys): 12V (23A battery\*1)

Working Current: ≤15mA Working Frequency: 433MHz

Temperature: -20°C-65°C

Remote Distance: ≤50m Remote storage capacity:50 PCS. If

more than 50 pcs, the first study remotes will be deleted.



Key function description:

STUDY-Remote control learning key:

- 1. Increase the remote control
- 2. Delete all the remote control keys

Dial switch instruction

OFF -- ON

- 1, Impulse Open -- Deadman open
- 2. Impulse Close -- Deadman close
- 3. Motor direction control Open, close -- Close, open
- 4. One-key/multi-key control Multi-key conrol -- One-key control

### Add/delete remote

1. Add remote: Push "study" key and loose it until you hear a sound, now it is study mode. Push one key on new remote three times continuously, when you hear a sound, then study successfully. If fail, please follow these steps and study again. You need to finish the study within 8s, if more than 8s, the study mode will be off automatically (you will hear the sound twice)

(Note: For four keys remote, push key 2 and key 3 together, it will be distance studying guidance mode. If this four keys remote has studied successfully, you can enter/exit the distance studying mode by push this key).

- 2. Delete remote: Keep pushing "study" key, don't loose it when you hear a sound, and loose it until you hear the sound sounds for a while, it means delete all remotes.
- 3. Remote storage capacity: 50pcs. If more than 50pcs, the first study remotes will be deleted.

One key/multi-key control

- 1. For one key control, only the first studied key can control. If change to another key, you need to study again, push "study" key.
- 2. One key control is same as line control, open, stop, close, stop.
- 3. For inching/linkage control, pushing the key is open/close, loose it is stop.

### Remote instruction

Key 1: Open Key 2: Close Key 3: Stop Key 4: Lock

Push key 2 and key 3 together: Enter/exit distance study mode.

Note: For one key mode, distance study can not be entered. If it has been studied before, then it can still work.

Security description:

1. It has the function of Photocell. When the door is blocked, it will automatically rebound 3S.

2. The normally closed signal is normally used as a trigger signal. Once the line is disconnected, it can be immediately known and checked.

3. The boxed button can be used as an emergency stop button and can be stopped at work.

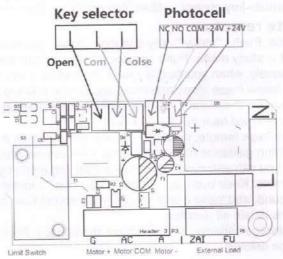
4. The use of potting transformer is safer than ordinary transformer.

5. Boxed fuse protection line

6. Acousto-optic reminding

7. In remote control learning, the same button should be pressed 3 times in a short time to prevent crosstalk.

### Key selector and Photocell wiring diagram:



# Central gearmotors for rolling shutters

Instructions and warnings for fitters
Warning: follow these personal safety instructions very carefully.
Save this manual for future reference.

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV ISO 9001



## EC - Declaration of conformity

the European directives 98/37/EEC, 73/23/EEC, and 89/336/EEC. standards: UNI EN 292 Part I,UNI EN 292 Part 2,UNI EN 294, UNI EN 418,CEI EN 60335-1,EN 55014-2 and The central gearmotors for rolling shutters series BOLT comply with the following technical

### Declaration of incorporation

visions of the regulations of the EU Directive 89/392 EEC and successive amendments. stalled and maintained according to the instruc-tions of their manufacturers, comply with the proto the manufacturer's instructions, in conjunction with roller rolling shutter, which must also be in-The central gearmotors for rolling shutters serirs BOLT, when installed and maintained according

comply with the foregoing directives I the undersigned declare that the foregoing equip-ment and all the accessories stated in the handbook

### INSTRUCTIONS SAFETY IT IS IMPORTANT TO OB-SERVE THESE INSTRUCTIONS RETAIN THESE IMPORTANT SAFETY INSTRUCTIONS ATTENTION - FOR REASONS OF PERSO-NAL



con-trol devices. Keep the remote Perform fre-quent checks on the controls out of reach of children Do not let children play with fixed

equipment if it requires repair or regulation damage to wires or springs. Do not use the system for any signs of unbalance and wear or



the maximum remind you to pay symbols serve to These warning

in compliance with the following installed indoors. employed for residential uses and must be instructions. The equipment must only be designed to function safely if installed and used risks to persons or things. This gearmotor is indicate the procedures to be followed to avoid attention when the equipment is in use. They



injuries. Follow all the installation instructions. installation can cause serious are warned that incorrect



com-mand more than one gearmotor equipment in both directions. Do not simultaneously operate the o not use command buttons that can

with each button. Conduct frequent

examinations on the installation to check for signs of unbalance and wear/damage to the wiring. Do heights of less than 2.5. m. adjustments. The product cannot be installed for not use the equipment if it requires repairs or

obligatory opening of at least 3 mm between the contacts is omnipolar disconnection from the mains with an The deployment of a device that guarantees

moving parts and at a height of at least 1.5 m. sight of the equipment, kept separate from the movement. The control button must be placed in disable any equipment not necessary for motorised rolling shutter remove all superfluous wires and Before installing the gearmotor for operating the

cools down operation will only be possible when the gearmotor itself after a few minutes. However, regular continued use. The gearmotor automatically resets power supply in the event of overheating caused by with an internal thermal protection that interrupts designed for intermittent operation and is provided person in order to avoid all risks. The gearmotor is sales service or, in any case, by a similarly qualified replaced by the constructor or his technical after-If the power cables are damaged they must be

## technical characteristics

90	CICS	308	306	BOL.	800	BOL	308	TOE	BOI	90	108	BOLI	BOLT	BOKE	BOL1	BOL	108		
BOCT-FOM 360	BOLT-F280F8299	BOLT-F240F5240	BOLT-F200/F8200	BOLT-FIBORETRO	BOLT-F160/FB160	BOLT-F140FB140	BOLT-F129F8120	BOLT-F100/F5100	BOLT-F60/F860	SOLT-COM 300	BOLT-CHOCB180	BOLT-0160CB160	BOLT-CHOCBIAO	BOYL-CHORORES	BOLT-0100/08150	BOLT-CBO/CB80	BOLT-C70/C870		WOORL
360	280	240	200	180	160	140	120	100	80	300	180	100	140	621	100	80	70	Non	TORQUE
6		8	8		dh	6	5	6	- 6	0	.0.	01	- 6		0	05	9	1	LSWITCH
10	10	10	10	155	10	10	10	10	10	10	10	10	10	10	10	10	10	٦	HASH
40UF	3NJF	240F	20UF	1 acet	YOUR	TALLE	taur	3005	100/6	40UF	22LJP	2007	180F	SCORE	14UF	1200	4001	2	CONDENSER
2H 08-062	230-50 Hz	ZH 00-002	230-98 Hz	ZH (85-982K	2H 05-003	230-50 Hz	ZH DS-08Z	230-50 Hz	230-50 Hz	230-S0 Hz	230-50 Hz	200-50 Hz	230-50 Hz	230-50 Hz	230-50 Hz	230-50 Hz	290-90 Hz	٧	VOLTAGE
5.21	3.48	3.15	2.68	2.56	2.21	1.86	1,72	1:51	1.08	4.91	2.85	2.40	2.15	18	175	1.66	1.60	>	ASSORBED POWERA
1108	900	725	620	5900	510	450	366	360	300	1129	959	572	48	425	412	382	372	¥	РОМЕН
*	4	4	+		+	*	A	6		4	*	*	e.	*	*	8		ann.	THERMAL
12.6	10	10	9.5	9.5	9.	85	8.5	0.5	В	12.8	10	9 5	0	0.5	80			ě	мекзит

### TECHNICAL DATA

6) Class Bisolation 5)Asynchronous 4 pole motor 1.400 rpm 4)Drive shaft mounted on double ball bearings 3)Rim mounted on bearing 2)Steel gears, roller bearings 1)Die-cast aluminium body and rim 7)Thermal protection on motor: 160°C

8)Easy limit-switch adjustment

BOLT C and BOLT F,4x1.5 mm2 for

**BOLT CDM and BOLT FDM** 

9)6 mt. maximum shutter height

10)Alimentation electric cable:4x1 mm2 for

12)Fittings for electrobrake mounting P-P8M-11)Operating temperature: -20°C. +85°C.

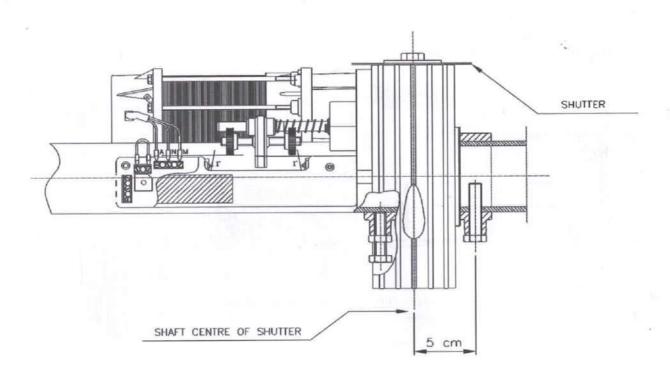
G GRIS NE NEUTRAL N BLACK FA PHASE M BROWN PU SWITCH G/V BARTH 3 **ELECTRICAL WIRING SCHEME** 3 mm OPENING DISTANCE BETWEEN CONTACTS

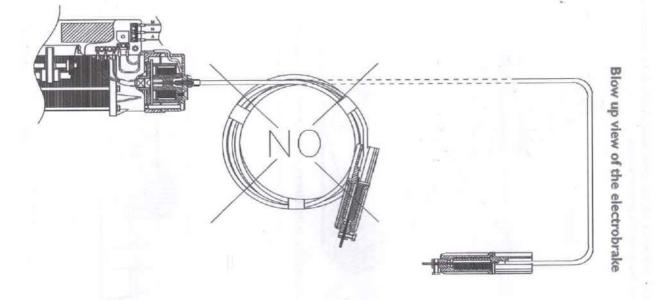
## INSTALLATION INTRUCTIONS



- centre of the shutter's shaft (see fig. I);
- gear of the gearmotor.
- the two M 8 screws (using a 6 mm hexagonal Remove the two semi-gears by unscrewing
- 4) Carefully remove, avoiding any folding, the mm wrench); black plastic roller carrier bandi;
- M 8 screws (using a 6 mm hexagonal wrench); tor (upper and lower body) acting on the four side the shutter shaft avoiding any contact Separate the two elements of the gearmo-
- diameter mm hole as a reference (point I); tioning them using the previously drilled 10 long, use the dedicated reducing sockets posi-6) Should the shutter shaft be less than 60 mm
- 7) Join the upper and lower bodies using the four M8 screws removed before; (down regulation completed);
- 8) Tighten the M IO t.e. screw without hexa-(previously drilled);
- housing
- the two M 8 screws;
- shaft and drill a 12 mm diameter hole at the scent and microswitch I will stop the opening

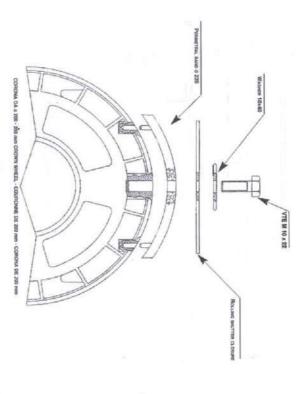
- Drill a 10 mm diameter hole 5 cm from the same location as the M10 threaded hole on
- Remove the M IO t.e. screws from the I3) Tighten by hand the gear by I-I1/2 turns by (down) fig. I (It must turn easily); bringing the grip towards microswitch I
- 14) Lock the shutter to the gearmotor using the M 10 t.e. screw with washer (using a 17
- 16) After having installed the mechanical parts with the rotating pars; in page 7 passing the 4xl mm cable supplied in-15) Make the electrical connections described
- the end of travel; and electrical contacts, proceed to regulate you hear the click of the microswitch's trigger 17) Turn the end of travel grip by hand uniti
- Install the roller band in its appropriate the correct point to regulate the position. enters the shutter shaft via the 10 mm hole motor via the key selctor or button to engon nut using a 17 mm wrench and ensure it switch II (up). Switch on current to the gear-10) Apply the semi-gears, holding them with the electric commands taking all precautions 18) Turn the other grip towards microto avoid manual lifting. adjust the grip, using solely and exclusively sure that when rising the shutter stops at
- to block the gearmotor on the shaftand tigh- contrary to the description in fig. I, the steps 11) Tighten the M 10 t.e. screw with nut so as 19) Should the shutter need to be installed 12) Place the last canvas of the shutter on the contrary as microswitch II will stop the dedescribed above should be carried out to the





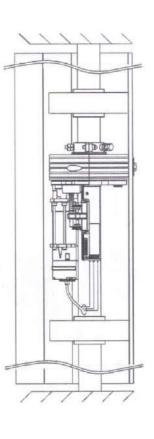
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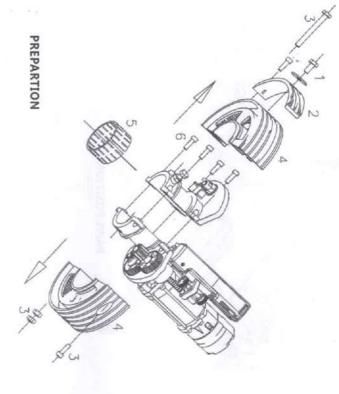
# **EUROSAFETY . EUROSAFETY PLUS - UNISAFETY - UNISAFETY PLUS**

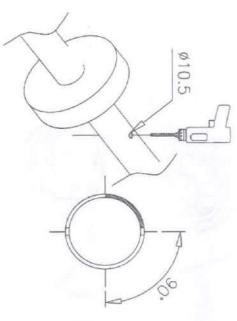
Eurosafety and Unisafety are version of the geramotors with safety device carried out to the stop the free fall of roller shutters and at the same time, in Plus version, to interrupt the motoreductor's feeding.

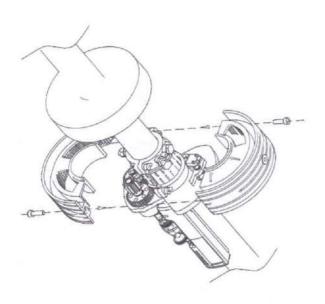


## TOWARDS OF INSTALLATION OF THE GEARMOTOR

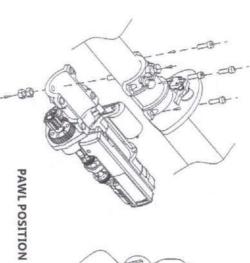
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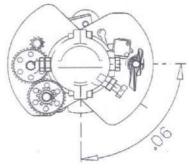






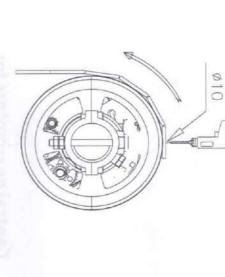
230V/50Hz~





## DOWNWARD RUN OF THE ROLLER SHUTTER

MICROSWITCH (ONLY PLUS VERSIONS)





EARTH

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9-

Central gearmotors for rolling shutters